PLASTER MORTARS / ADHESIVE MORTARS / REPAIR MORTARS / GROUTING MORTARS / FLOOR MORTARS
THERMAL INSULATION PRODUCTS / WATER ISOLATION PRODUCTS / PRIMER PRODUCTS
CONCRETE CURING PRODUCTS / MORTAR ADDITIVES

NUR®
YAPI KİMYASALLARI

# PRODUCTS CATALOG

www.**nurkim**.com.tr
www.**nurkirec**.com.tr

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# ABOUT US


In 1984, founded by Arif ZALOĞLU, Nur Kireç San.Tic. ve Paz. Ltd.Şti. has been serving to their customers by the brand names of “NUR KIREÇ” and “NUR AGREGA” for more than 30 years with the facilities of aggregate plant, lime quarries, lime kilns, lime slaking facility in Adana city in TURKEY. Company increased it’s daily lime production capacity to 1.250 tons/day through the investments in 2015.

Nur Kireç supplies aggregate (CaCO3), quicklime (CaO) and hydrated lime (Ca(OH)2) products to iron and steel plants, aerated concrete plants, gypsum plants, construction chemicals plants, ready-mix concrete plants, water treatment plants, sugar plants, thermal power plants, etc. and construction sector. Nur Kireç exports its products to different countiries all around the world such as Russia, Ukraine, Iraq, Syria, Israel, Jordan, Cyprus, Greece, Albania and African Countries.

At May of 2015, company built a new construction chemicals plant with “NUR YAPI KIMYASALLARI” brand name, which has the highest production catapacity in TURKEY as 1.200 tones/day. In this plant, company started to produce cement based plasters for indoors and outdoors, adhesives for ceramic-tile-granite-marble-decorative elements, grouting mortars, floor levelling mortars, repairing mortars, thermal insulation products, water isolation products, primer products, concrete curing products and mortar additives. As a result of hard work of the experienced technical team at the modern R&D laboratory, Nur Yapı Kimyasalları lives the excitement and pride of serving to its customers with its durable, high quality products that provides innovative solutions in the construction sector in Turkey and in the world.


NUR YAPI KİMYASALLARI
BAZMAKİNA


PLASTER
MORTARS

- **G-PLAST-2000** / COARSE HAND PLASTER *fiber-grey*
- **G-PLAST-1200** / HAND PLASTER *silicon-perlite-fiber-grey*
- **W-PLAST-1200** / HAND PLASTER *silicon-perlite-fiber-white*
- **G-PLAST-MACHINE** / MACHINE PLASTER *silicon-fiber-grey*
- **W-PLAST-MACHINE** / MACHINE PLASTER *silicon-fiber-white*
- **G-PLAST-800** / FINE PLASTER *silicon-perlite-grey*
- **W-PLAST-800** / FINE PLASTER *silicon-perlite-white*
- **G-PLAST-POWER** / FINE PLASTER *silicon-perlite-fiber-grey*
- **W-PLAST-POWER** / FINE PLASTER *silicon-perlite-fiber-white*
- **W-PLAST-FINISH** / SATIN FINISHING PLASTER *silicon-white*
- **G-PLAST-MANTO** / PLASTER FOR THERMAL INSULATION BOARDS *fiber-grey*
- **W-PLAST-DECO** / DECORATIVE PLASTER *silicon-white*
- **W-PLAST-THERM** / THERMAL INSULATION PLASTER *silicon-perlite-fiber-white*


# G-PLAST-2000

## COARSE HAND PLASTER

*fiber-grey*

Grey cement-based, reinforced with fiber and chemical additives, 1st layer coarse hand plaster for interiors and exteriors

TS EN 998-1 / 02.2017

CE 17

ISO 9001:2015

### ADVANTAGES

* G-PLAST-2000 coarse plaster provides labor and time advantage, by it's easy preparation and application features.
* Provides high adhesion and durability.
* Provides less consumption at unit area by it's special formula.
* Prevents formation of shrinkage cracks due to it's fiber reinforcement.
* Provides a sound and straight surface for upper applications.

### APPLICATION AREAS

Applied by hand as first layer plaster as horizontal and vertical at indoors and outdoors on brick, gas concrete, pumice, concrete walls and ceilings where application thicker than 1,5 cm is needed.

### RECOMMENDATIONS

G-PLAST-800, W-PLAST-800, G-PLAST-POWER, W-PLAST-POWER fine hand plasters, W-PLAST-DECO decorative plaster, W-PLAST-THERM thermal insulation plaster, THERMBOARD thermal insulation systems or coating material (tile, etc.) applications with NYK tile adhesives can be applied on G-PLAST-2000.

### CONSUMPTION

1,25 m² / 35 kg package (Application thickness: 2 cm)

| TS EN 998 - 1 / 02.2017<br>Interior and Exterior Coarse Hand Plaster for General Purpose (GP) | |
|---|---|
| Dry Bulk Density | 1300 ± 100 g/L |
| Reaction To Fire | Class A1 |
| Compressive Strength | CS IV |
| Adhesion Strength | > 0,2 N/mm² |
| Capillary Water Absorption | W1 |
| Water Vapor Permeability | μ ≤ 15 |
| Thermal Conductivity Coefficient | ≤ 0,45 W/mK (P=%50) |
| Maturation Time | 5 min. |
| Workability Time | 40 min. |
| Drying Time | minimum 2 days |

| RISK SIGNS |
|---|
| **H315:** Causes skin irritation. |
| **H318:** Causes serious eye damage. |
| **H335:** May cause respiratory irritation. |
| **SAFETY SIGNS** |
| **P280:** Wear protective gloves/protective clothing/eye protection/face protection. |
| **P305+P351+P338:** In case of contact with eyes, rinse carefully with water a few minutes. If avalible and easy, remove contact lenses. Continue rinsing. |
| **SHELF LIFE** |
| Unopened original packages can be stored in dry (%60 R.H.) and cool (between +5°C and +25°C) environments for up to 12 months. |

## SURFACE PREPARATION

* Application surfaces should be clean, sound and free from dust.
* Adhesion barrier materials (oil, dirt, dust etc.) should be cleaned from surface, cement-mortar residues should be scraped.
* Gaps and cracks on surface should be repaired with G-REPAIR-1200 or G-REPAIR-800 repair mortars at least 1 day before the application.
* If needed, surface should be cleaned with water.
*PRIMER-ST primer should be used at least 1 hour before the application to reduce water absorption of the surface in very hot & windy weather.
*Smooth surfaces should be notched.
*PRIMER-PLAST primer should be used at least 1 day before the application to ensure high adhesion strength and reduce water absorption on smooth surfaces such as concrete.
* If plaster levelling bars will be used, they should be fixed to wall min. 1 day before the application in accordance with the application thickness.

## APPLICATION METHODS

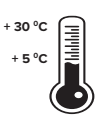
35 kg G-PLAST-2000 coarse hand plaster is added on 5,5 liters of clean water by sprinkling.

Mortar is blended by a low speed mixer or by a trowel to ensure that there are no lumps in it.
Mortar is rested for 5 minutes to mature and mixed again before the application.

G-PLAST-2000 mortar is applied to entire surface uniformly with a maximum thickness of 3 cm by a steel trowel.

After the application, fresh mortar surface is smoothed by a template.

In case application thickness exceeds 3 cm, 2nd layer application should be done after 1 day from 1st layer.
After dring time is completed, surface becomes ready for other applications on it.




Ambient and surface temperature should be between +5°C and +30°C during the application.

For better results and high efficiency, plaster profiles should be used at corners.

Plaster mesh should be used at joints of different materials and moving points.


Any additional material (such as lime, cement, gypsum etc.) should not be added in to prepared mortar.

Surface should be protected from airflows and sudden temperature changes during and after the application.


Mortar should not be applied on frozen, melting or within 24 hours danger of frost surfaces.


Hardened-set mortar should not be used by adding water and mixing again.

Mortar should not be applied on unsound and loose surfaces.


# G-PLAST-1200

## HAND PLASTER

*silicon-perlite-fiber-grey*

Grey cement-based,
reinforced with fiber, perlite and chemical additives,
resistant to water and moisture,
1st layer hand plaster
for interiors and exteriors

TS EN 998-1 / 02.2017

CE 17

ISO 9001:2015

## ADVANTAGES

* G-PLAST-1200 plaster provides labor and time advantage, by it's easy preparation and application features.
* Provides high adhesion and durability.
* Provides less consumption at unit area due to it's special formula.
* Prevents formation of shrinkage cracks due to it's fiber reinforcement.
* Provides resistance to water and moisture due to it's silicone additive.
* Provides a sound and straight surface for applications on it.
* If desired, it provides a decorative and grained surface before paint by smoothing surface with finishing trowel application.

## APPLICATION AREAS

Applied by hand as first layer plaster as horizontal and vertical at indoors and outdoors on brick, gas concrete, pumice, concrete walls and ceilings where application thinner than 1,5 cm is adequate.

## RECOMMENDATIONS

W-PLAST-FINISH finishing plaster, W-PLAST-DECO decorative plaster, W-PLAST-THERM thermal insulation plaster, THERMBOARD thermal insulation systems, proper paint application with paint primer or coating material (tile, etc.) applications with NYK tile adhesives can be applied on G-PLAST-1200.

## CONSUMPTION

3 m² / 35 kg package (Application thickness: 1 cm)

| TS EN 998 - 1 / 02.2017<br>Interior and Exterior Hand Plaster for General Purpose (GP) | |
|---|---|
| Dry Bulk Density | 1300 ± 150 g/L |
| Reaction To Fire | Class A1 |
| Compressive Strength | CS IV |
| Adhesion Strength | > 0,2 N/mm² |
| Capillary Water Absorption | W1 |
| Water Vapor Permeability | μ ≤ 15 |
| Thermal Conductivity Coefficient | ≤ 0,45 W/mK (P=%50) |
| Maturation Time | 5 min. |
| Workability Time | 40 min. |
| Drying Time | minimum 2 days |

| RISK SIGNS |
|---|
| **H315:** Causes skin irritation. |
| **H318:** Causes serious eye damage. |
| **H335:** May cause respiratory irritation. |
| **SAFETY SIGNS** |
| **P280:** Wear protective gloves/protective clothing/eye protection/face protection. |
| **P305+P351+P338:** In case of contact with eyes, rinse carefully with water a few minutes. If avalible and easy, remove contact lenses. Continue rinsing. |
| **SHELF LIFE** |
| Unopened original packages can be stored in dry (%60 R.H.) and cool (between +5°C and +25°C) environments for up to 12 months. |

## SURFACE PREPARATION

* Application surfaces should be clean, sound and free from dust.
* Adhesion barrier materials (oil, dirt, dust etc.) should be cleaned from surface, cement-mortar residues should be scraped.
* Gaps and cracks on surface should be repaired with G-REPAIR-1200 or G-REPAIR-800 repair mortars at least 1 day before the application.
* If needed, surface should be cleaned with water.
* PRIMER-ST primer should be used at least 1 hour before the application to reduce water absorption of the surface in very hot & windy weather.
* Smooth surfaces should be notched.
* PRIMER-PLAST should be used at least 1 day before the application to ensure high adhesion strength and reduce water absorption on smooth surfaces such as concrete.
* If plaster levelling bars will be used, they should be fixed to wall min. 1 day before the application in accordance with the application thickness.

## APPLICATION METHODS

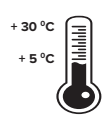
35 kg G-PLAST-1200 hand plaster is added on 7,5 liters of clean water by sprinkling.

Mortar is blended by a low speed mixer or by a trowel to ensure that there are no lumps in it.
Mortar is rested for 5 minutes to mature and mixed again before the application.

G-PLAST-1200 mortar is applied to entire surface uniformly with a maximum thickness of 1,5 cm by a steel trowel.

After the application, fresh mortar surface is smoothed by a template.
In case application thickness exceeds 1,5 cm, 2nd layer application should be done after 1 day from 1st layer.

If desired, a decorative and granular surface can be obtained before paint, there will be no need for an upper plaster application.
When plaster surface starts getting dry, it is corrected with water and finishing trowel.
When plaster surface starts getting dry after the correction application, it is smoothed by using a damp sponge trowel.
If an upper plaster application will be done, 1.st layer shouldn't be corrected and smoothed.
After drying time is completed, surface becomes ready for other applications on it.




Ambient and surface temperature should be between +5°C and +30°C during the application.

For better results and high efficiency, plaster profiles should be used at corners.

Plaster mesh should be used at joints of different materials and moving points.


Any additional material (such as lime, cement, gypsum etc.) should not be added in to prepared mortar.

Surface should be protected from airflows and sudden temperature changes during and after the application.


Mortar should not be applied on frozen, melting or within 24 hours danger of frost surfaces.


Hardened-set mortar should not be used by adding water and mixing again.

Mortar should not be applied on unsound and loose surfaces.


# W-PLAST-1200

## HAND PLASTER

*silicon-perlite-fiber-white*

White cement-based,
reinforced with fiber, perlite and
chemical additives,
resistant to water and moisture,
1st layer hand plaster
for interiors and exteriors

TS EN 998-1 / 02.2017

CE 17

ISO 9001:2015

## ADVANTAGES

* W-PLAST-1200 plaster provides labor and time advantage, by it's easy preparation and application features.
* Provides high adhesion and durability.
* Provides less consumption at unit area due to it's special formula.
* Prevents formation of shrinkage cracks due to it's fiber reinforcement.
* Provides resistance to water and moisture with it's silicone additive.
* Provides a sound and straight surface for upper applications.
* If desired, it provides a decorative and grained surface before paint by smoothing surface with finishing trowel application.

## APPLICATION AREAS

Applied by hand as first layer plaster as horizontal and vertical at indoorsand outdoors on brick, gas concrete, pumice, concrete walls and ceilings where application thinner than 1,5 cm is adequate.

## RECOMMENDATIONS

W-PLAST-FINISH finishing plaster, W-PLAST-DECO decorative plaster, W-PLAST-THERM thermal insulation plaster, THERMBOARD thermal insulation systems, proper paint application with paint primer or coating material (tile, etc.) applications with NYK tile adhesives can be applied on W-PLAST-1200.

## CONSUMPTION

3 m² / 35 kg package (Application thickness: 1 cm)

| TS EN 998 - 1 / 02.2017<br>Interior and Exterior Hand Plaster for General Purpose (GP) | |
|---|---|
| Dry Bulk Density | 1300 ± 150 g/L |
| Reaction To Fire | Class A1 |
| Compressive Strength | CS IV |
| Adhesion Strength | > 0,2 N/mm² |
| Capillary Water Absorption | W1 |
| Water Vapor Permeability | μ ≤ 15 |
| Thermal Conductivity Coefficient | ≤ 0,45 W/mK (P=%50) |
| Maturation Time | 5 min. |
| Workability Time | 40 min. |
| Drying Time | minimum 2 days |

| RISK SIGNS |
|---|
| **H315:** Causes skin irritation. |
| **H318:** Causes serious eye damage. |
| **H335:** May cause respiratory irritation. |
| **SAFETY SIGNS** |
| **P280:** Wear protective gloves/protective clothing/eye protection/face protection. |
| **P305+P351+P338:** In case of contact with eyes, rinse carefully with water a few minutes. If avalible and easy, remove contact lenses. Continue rinsing. |
| **SHELF LIFE** |
| Unopened original packages can be stored in dry (%60 R.H.) and cool (between +5°C and +25°C) environments for up to 12 months. |

## SURFACE PREPARATION

* Application surfaces should be clean, sound and free from dust.
* Adhesion barrier materials (oil, dirt, dust etc.) should be cleaned from surface, cement-mortar residues should be scraped.
* Gaps and cracks on surface should be repaired with G-REPAIR-1200 or G-REPAIR-800 repair mortars at least 1 day before the application.
* If needed, surface should be cleaned with water.
* PRIMER-ST primer should be used at least 1 hour before the application to reduce water absorption of the surface in very hot & windy weather.
* Smooth surfaces should be notched.
* PRIMER-PLAST should be used at least 1 day before the application to ensure high adhesion strength and reduce water absorption on smooth surfaces such as concrete.
* If plaster levelling bars will be used, they should be fixed to wall min. 1 day before the application in accordance with the application thickness.

## APPLICATION METHODS

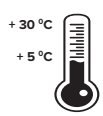
35 kg W-PLAST-1200 hand plaster is added on 7,5 liters of clean water by sprinkling.

Mortar is blended by a low speed mixer or by a trowel to ensure that there are no lumps in it.
Mortar is rested for 5 minutes to mature and mixed again before the application.

W-PLAST-1200 mortar is applied to entire surface uniformly with a maximum thickness of 1,5 cm by a steel trowel.

After the application, fresh mortar surface is smoothed by a template.
In case application thickness exceeds 1,5 cm, 2nd layer application should be done after 1 day from 1st layer.

If desired, a decorative and granular surface can be obtained before paint, there will be no need for an upper plaster application.
When plaster surface starts getting dry, it is corrected with water and finishing trowel.
When plaster surface starts getting dry after the correction application, it is smoothed by using a damp sponge trowel.
If an upper plaster application will be done, 1.st layer shouldn't be corrected and smoothed.
After drying time is completed, surface becomes ready for other applications on it.




Ambient and surface temperature should be between +5°C and +30°C during the application.

For better results and high efficiency, plaster profiles should be used at corners.

Plaster mesh should be used at joints of different materials and moving points.


Any additional material (such as lime, cement, gypsum etc.) should not be added in to prepared mortar.

Surface should be protected from airflows and sudden temperature changes during and after the application.


Mortar should not be applied on frozen, melting or within 24 hours danger of frost surfaces.


Hardened-set mortar should not be used by adding water and mixing again.

Mortar should not be applied on unsound and loose surfaces.


# G-PLAST-MACHINE

## MACHINE PLASTER

*silicon-fiber-grey*

Grey cement-based, reinforced with fiber and chemical additives, resistant to water and moisture, 1st layer machine plaster for interiors and exteriors which provides smooth surface at one layer application

TS EN 998-1 / 02.2017

CE 17

ISO 9001:2015

### ADVANTAGES

* G-PLAST-MACHINE plaster mortar provides labor & time advantage, by it's easy preparation and application features.
* Provides high adhesion and durability.
* Provides less consumption at unit area due to it's special formula.
* Prevents formation of shrinkage cracks due to it's fiber reinforcement.
* Provides resistance to water and moisture with it's silicone additive.
* Provides a sound, straight and smooth surface for upper applications with one layer application.

### APPLICATION AREAS

Applied by spraying machine as first layer plaster as horizontal and vertical at indoors & outdoors on brick, gas concrete, pumice, concrete walls and ceilings where application thinner than 1,5 cm is adequate.

### RECOMMENDATIONS

W-PLAST-FINISH finishing plaster, W-PLAST-DECO decorative plaster, W-PLAST-THERM thermal insulation plaster, THERMBOARD thermal insulation systems, proper paint application with paint primer or coating material (tile, etc.) applications with NYK tile adhesives can be applied on G-PLAST-MACHINE.

### CONSUMPTION

3 m² / 35 kg package (Application thickness: 1 cm)

| TS EN 998 - 1 / 02.2017<br>Interior and Exterior Machine Plaster for General Purpose (GP) | |
|---|---|
| Dry Bulk Density | 1300 ± 150 g/L |
| Reaction To Fire | Class A1 |
| Compressive Strength | CS IV |
| Adhesion Strength | > 0,2 N/mm² |
| Capillary Water Absorption | W1 |
| Water Vapor Permeability | μ ≤ 15 |
| Thermal Conductivity Coefficient | ≤ 0,45 W/mK (P=%50) |
| Maturation Time | 5 min. |
| Workability Time | 40 min. |
| Drying Time | minimum 2 days |

| RISK SIGNS |
|---|
| **H315:** Causes skin irritation. |
| **H318:** Causes serious eye damage. |
| **H335:** May cause respiratory irritation. |
| **SAFETY SIGNS** |
| **P280:** Wear protective gloves/protective clothing/eye protection/face protection. |
| **P305+P351+P338:** In case of contact with eyes, rinse carefully with water a few minutes. If avalible and easy, remove contact lenses. Continue rinsing. |
| **SHELF LIFE** |
| Unopened original packages can be stored in dry (%60 R.H.) and cool (between +5°C and +25°C) environments for up to 12 months. |

## SURFACE PREPARATION

* Application surfaces should be clean, sound and free from dust.
* Adhesion barrier materials (oil, dirt, dust etc.) should be cleaned from surface, cement-mortar residues should be scraped.
* Gaps and cracks on surface should be repaired with G-REPAIR-1200 or G-REPAIR-800 repair mortars at least 1 day before the application.
* If needed, surface should be cleaned with water.
* PRIMER-ST primer should be used at least 1 hour before the application to reduce water absorption of the surface in very hot & windy weather.
* Smooth surfaces should be notched.
* PRIMER-PLAST should be used at least 1 day before the application to ensure high adhesion strength and reduce water absorption on smooth surfaces such as concrete.
* Plaster levelling bars should be fixed to wall minimum 1 day before the application in accordance with the application thickness.

## APPLICATION METHODS

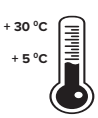
35 kg G-PLAST-MACHINE machine plaster is poured into the hopper of the plaster spraying machine.
Water-plaster ratio of the machine should be fixed as 8 liters of clean water for 35 kg G-PLAST-MACHINE.
Hopper of the machine shouldn't be empty during the application.

G-PLAST-MACHINE machine plaster is sprayed to the surface with spraying machine.
Applications thickness should be max. 1,5 cm in a single layer.
In case application thickness exceeds 1,5 cm, 2.nd layer application should be done after 1 day from 1st layer application.

After spraying is completed, fresh plaster surface is smoothed by a template.

When plaster surface starts getting dry, it is corrected with water and finishing trowel.
If 2nd layer application will be done, 1st layer shouldn't be smoothed.

Final smoothing is made with water and a steel trowel for a few times before surface gets completely dry.
After setting time is completed, surface becomes ready for other applications on it.




Ambient and surface temperature should be between +5°C and +30°C during the application.

For better results and high efficiency, plaster profiles should be used at corners.

Plaster mesh should be used at joints of different materials and moving points.


Any additional material (such as lime, cement, gypsum etc.) should not be added in to prepared mortar.

Surface should be protected from airflows and sudden temperature changes during and after the application.


Mortar should not be applied on frozen, melting or within 24 hours danger of frost surfaces.


Hardened-set mortar should not be used by adding water and mixing again.

Mortar should not be applied on unsound and loose surfaces.


# W-PLAST-MACHINE

## MACHINE PLASTER

*silicon-fiber-white*

White cement-based, reinforced with fiber and chemical additives, resistant to water and moisture, 1st layer machine plaster for interiors and exteriors which provides smooth surface at one layer application

TS EN 998-1 / 02.2017

CE 17

ISO 9001:2015

### ADVANTAGES

* W-PLAST-MACHINE plaster mortar provides labor & time advantage, by it's easy preparation and application features.
* Provides high adhesion and durability.
* Provides less consumption at unit area due to it's special formula.
* Prevents formation of shrinkage cracks due to it's fiber reinforcement.
* Provides resistance to water and moisture due to it's silicone additive.
* Provides a sound, straight and smooth surface for upper applications with one layer application.

### APPLICATION AREAS

Applied by spraying machine as first layer plaster as horizontal and vertical at indoors & outdoors on brick, gas concrete, pumice, concrete walls and ceilings where application thinner than 1,5 cm is adequate.

### RECOMMENDATIONS

W-PLAST-FINISH finishing plaster, W-PLAST-DECO decorative plaster, W-PLAST-THERM thermal insulation plaster, THERMBOARD thermal insulation systems, proper paint application with paint primer or coating material (tile, etc.) applications with NYK tile adhesives can be applied on W-PLAST-MACHINE.

### CONSUMPTION

3 m² / 35 kg package (Application thickness: 1 cm)

| TS EN 998 - 1 / 02.2017<br>Interior and Exterior Machine Plaster for General Purpose (GP) | |
|---|---|
| Dry Bulk Density | 1300 ± 150 g/L |
| Reaction To Fire | Class A1 |
| Compressive Strength | CS IV |
| Adhesion Strength | > 0,2 N/mm² |
| Capillary Water Absorption | W1 |
| Water Vapor Permeability | μ ≤ 15 |
| Thermal Conductivity Coefficient | ≤ 0,45 W/mK (P=%50) |
| Maturation Time | 5 min. |
| Workability Time | 40 min. |
| Drying Time | minimum 2 days |

| RISK SIGNS |
|---|
| **H315:** Causes skin irritation. |
| **H318:** Causes serious eye damage. |
| **H335:** May cause respiratory irritation. |
| **SAFETY SIGNS** |
| **P280:** Wear protective gloves/protective clothing/eye protection/face protection. |
| **P305+P351+P338:** In case of contact with eyes, rinse carefully with water a few minutes. If avalible and easy, remove contact lenses. Continue rinsing. |
| **SHELF LIFE** |
| Unopened original packages can be stored in dry (%60 R.H.) and cool (between +5°C and +25°C) environments for up to 12 months. |

## SURFACE PREPARATION

* Application surfaces should be clean, sound and free from dust.
* Adhesion barrier materials (oil, dirt, dust etc.) should be cleaned from surface, cement-mortar residues should be scraped.
* Gaps and cracks on surface should be repaired with G-REPAIR-1200 or G-REPAIR-800 repair mortars at least 1 day before the application.
* If needed, surface should be cleaned with water.
* PRIMER-ST primer should be used at least 1 hour before the application to reduce water absorption of the surface in very hot & windy weather.
* Smooth surfaces should be notched.
* PRIMER-PLAST should be used at least 1 day before the application to ensure high adhesion strength and reduce water absorption on smooth surfaces such as concrete.
* Plaster levelling bars should be fixed to wall minimum 1 day before the application in accordance with the application thickness.

## APPLICATION METHODS

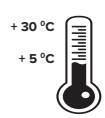
35 kg W-PLAST-MACHINE machine plaster is poured into the hopper of the plaster spraying machine.
Water-plaster ratio of the machine should be fixed as 8 liters of clean water for 35 kg W-PLAST-MACHINE.
Hopper of the machine shouldn't be empty during the application.

W-PLAST-MACHINE machine plaster is sprayed to the surface with spraying machine.
Applications thickness should be max. 1,5 cm in a single layer.
In case application thickness exceeds 2 cm, 2nd layer application should be done after 1 day from 1st layer application.

After spraying is completed, fresh plaster surface is smoothed by a template.

When plaster surface starts getting dry, it is corrected with water and finishing trowel.
If 2nd layer application will be done, 1st layer shouldn't be smoothed.

Finally surface smoothing is made with water and a steel trowel for a few times before surface gets completely dry.
After drying time is completed, surface becomes ready for other applications on it.




Ambient and surface temperature should be between +5°C and +30°C during the application.

For better results and high efficiency, plaster profiles should be used at corners.

Plaster mesh should be used at joints of different materials and moving points.


Any additional material (such as lime, cement, gypsum etc.) should not be added in to prepared mortar.

Surface should be protected from airflows and sudden temperature changes during and after the application.


Mortar should not be applied on frozen, melting or within 24 hours danger of frost surfaces.


Hardened-set mortar should not be used by adding water and mixing again.

Mortar should not be applied on unsound and loose surfaces.


# G-PLAST-800

## FINE HAND PLASTER

*silicon-perlite-grey*

Grey cement-based, reinforced with perlite and chemical additives, resistant to water and moisture, final layer fine hand plaster for interiors and exteriors

TS EN 998-1 / 02.2017

CE 17

ISO 9001:2015

### ADVANTAGES

* G-PLAST-800 fine plaster provides labor and time advantage, by it's easy preparation and application features.
* Provides high adhesion and durability.
* Provides less consumption at unit area by it's special formula.
* Prevents formation of shrinkage cracks due to it's special formula.
* Provides resistance to water and moisture due to it's silicone additive.
* Provides esthetic, fine grained and sound surface before paint.

### APPLICATION AREAS

Applied by hand as final layer plaster on G-PLAST-2000, G-PLAST-1200, W-PLAST-1200 or W-PLAST-THERM 1st layer plasters as horizontal and vertical at indoors and outdoors.

### RECOMMENDATIONS

W-PLAST-FINISH finishing plaster, proper paint application with paint primer or coating material (tile, etc.) applications with NYK tile adhesives can be applied on G-PLAST-800.

### CONSUMPTION

10 m² / 35 kg package (Application thickness: 2 mm)

| TS EN 998 - 1 / 02.2017<br>Interior and Exterior Fine Hand Plaster for General Purpose (GP) | |
|---|---|
| Dry Bulk Density | 1300 ± 100 g/L |
| Reaction To Fire | Class A1 |
| Compressive Strength | CS IV |
| Adhesion Strength | > 0,2 N/mm² |
| Capillary Water Absorption | W1 |
| Water Vapor Permeability | μ ≤ 15 |
| Thermal Conductivity Coefficient | ≤ 0,45 W/mK (P=%50) |
| Maturation Time | 5 min. |
| Workability Time | 40 min. |
| Drying Time | minimum 2 days |

| RISK SIGNS |
|---|
| **H315:** Causes skin irritation. |
| **H318:** Causes serious eye damage. |
| **H335:** May cause respiratory irritation. |
| **SAFETY SIGNS** |
| **P280:** Wear protective gloves/protective clothing/eye protection/face protection. |
| **P305+P351+P338:** In case of contact with eyes, rinse carefully with water a few minutes. If avalible and easy, remove contact lenses. Continue rinsing. |
| **SHELF LIFE** |
| Unopened original packages can be stored in dry (%60 R.H.) and cool (between +5°C and +25°C) environments for up to 12 months. |

## SURFACE PREPARATION

* Application surfaces should be clean, sound and free from dust.
* Adhesion barrier materials (oil, dirt, dust etc.) should be cleaned from surface, cement-mortar residues should be scraped.
* Gaps and cracks on surface should be repaired with G-REPAIR-1200 or G-REPAIR-800 repair mortars at least 1 day before the application.
* If needed, surface should be cleaned with water.
* PRIMER-ST primer should be used at least 1 hour before the application to reduce water absorption of the surface in very hot and windy weather.
* PRIMER-PLAST primer should be used at least 1 day before the application to ensure high adhesion strength and reduce water absorption on smooth surfaces such as concrete.

## APPLICATION METHODS

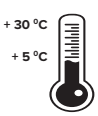
35 kg G-PLAST-800 fine plaster is added on 8 liters of clean water by sprinkling.

Mortar is blended by a low speed mixer or by a trowel to ensure that there are no lumps in it.
Mortar is rested for 5 minutes to mature and mixed again before the application.

G-PLAST-800 mortar is applied to entire surface uniformly with a maximum thickness of 5 mm by a steel trowel.

When plaster surface starts getting dry, it is corrected with water and finishing trowel.

When plaster surface starts getting dry after the correction application, it is smoothed by using a damp sponge trowel.
After drying time is completed, surface becomes ready for other applications on it.




Ambient and surface temperature should be between +5°C and +30°C during the application.

For better results and high efficiency, plaster profiles should be used at corners.

Plaster mesh should be used at joints of different materials and moving points.


Any additional material (such as lime, cement, gypsum etc.) should not be added in to prepared mortar.

Surface should be protected from airflows and sudden temperature changes during and after the application.


Mortar should not be applied on frozen, melting or within 24 hours danger of frost surfaces.


Hardened-set mortar should not be used by adding water and mixing again.

Mortar should not be applied on unsound and loose surfaces.


# W-PLAST-800

## FINE HAND PLASTER

*silicon-perlite-white*

White cement-based, reinforced with perlite and chemical additives, resistant to water and moisture, final layer fine hand plaster for interiors and exteriors

TS EN 998-1 / 02.2017

CE 17

ISO 9001:2015

### ADVANTAGES

* W-PLAST-800 fine plaster provides labor and time advantage, by it's easy preparation and application features.
* Provides high adhesion and durability.
* Provides less consumption at unit area by it's special formula.
* Prevents formation of shrinkage cracks due to it's special formula.
* Provides resistance to water and moisture due to it's silicone additive.
* Provides esthetic, fine grained and sound surface before paint.

### APPLICATION AREAS

Applied by hand as final layer plaster on G-PLAST-2000, G-PLAST-1200, W-PLAST-1200 or W-PLAST-THERM 1st layer plasters as horizontal and vertical at indoors and outdoors.

### RECOMMENDATIONS

W-PLAST-FINISH finishing plaster, proper paint application with paint primer or coating material (tile, etc.) applications with NYK tile adhesives can be applied on W-PLAST-800.

### CONSUMPTION

10 m² / 35 kg package (Application thickness: 2 mm)

| TS EN 998 - 1 / 02.2017<br>Interior and Exterior Fine Hand Plaster for General Purpose (GP) | |
|---|---|
| Dry Bulk Density | 1300 ± 150 g/L |
| Reaction To Fire | Class A1 |
| Compressive Strength | CS IV |
| Adhesion Strength | > 0,2 N/mm² |
| Capillary Water Absorption | W1 |
| Water Vapor Permeability | μ ≤ 15 |
| Thermal Conductivity Coefficient | ≤ 0,45 W/mK (P=%50) |
| Maturation Time | 5 min. |
| Workability Time | 40 min. |
| Drying Time | minimum 2 days |

| RISK SIGNS |
|---|
| **H315:** Causes skin irritation. |
| **H318:** Causes serious eye damage. |
| **H335:** May cause respiratory irritation. |
| **SAFETY SIGNS** |
| **P280:** Wear protective gloves/protective clothing/eye protection/face protection. |
| **P305+P351+P338:** In case of contact with eyes, rinse carefully with water a few minutes. If avalible and easy, remove contact lenses. Continue rinsing. |
| **SHELF LIFE** |
| Unopened original packages can be stored in dry (%60 R.H.) and cool (between +5°C and +25°C) environments for up to 12 months. |

## SURFACE PREPARATION

* Application surfaces should be clean, sound and free from dust.
* Adhesion barrier materials (oil, dirt, dust etc.) should be cleaned from surface, cement-mortar residues should be scraped.
* Gaps and cracks on surface should be repaired with G-REPAIR-1200 or G-REPAIR-800 repair mortars at least 1 day before the application.
* If needed, surface should be cleaned with water.
* PRIMER-ST primer should be used at least 1 hour before the application to reduce water absorption of the surface in very hot & windy weather.
* Smooth surfaces should be notched.
* PRIMER-PLAST should be used at least 1 day before the application to ensure high adhesion strength and reduce water absorption on smooth surfaces such as concrete.

## APPLICATION METHODS

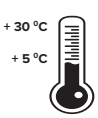
35 kg W-PLAST-800 fine hand plaster is added on 8 liters of clean water by sprinkling.

Mortar is blended by a low speed mixer or by a trowel to ensure that there are no lumps in it.
Mortar is rested for 5 minutes to mature and mixed again before the application.

W-PLAST-800 mortar is applied to entire surface uniformly with a maximum thickness of 5 mm by a steel trowel.

When plaster surface starts getting dry, it is smoothed with water and finishing trowel.

When plaster surface starts getting dry after the correction application, it is smoothed by using a damp sponge trowel.
After drying time is completed, surface becomes ready for other applications on it.




Ambient and surface temperature should be between +5°C and +30°C during the application.

For better results and high efficiency, plaster profiles should be used at corners.

Plaster mesh should be used at joints of different materials and moving points.


Any additional material (such as lime, cement, gypsum etc.) should not be added in to prepared mortar.

Surface should be protected from airflows and sudden temperature changes during and after the application.


Mortar should not be applied on frozen, melting or within 24 hours danger of frost surfaces.


Hardened-set mortar should not be used by adding water and mixing again.

Mortar should not be applied on unsound and loose surfaces.


# G-PLAST-POWER

## FINE HAND PLASTER

*silicon-perlite-fiber-grey*

Grey cement-based, reinforced with fiber, perlite and chemical additives, resistant to water and moisture, final layer fine hand plaster for interiors and exteriors

TS EN 998-1 / 07.2011

CE 17

ISO 9001:2015

### ADVANTAGES

* G-PLAST-POWER fine plaster provides labor and time advantage, by it's easy preparation and application features.
* Provides high adhesion and durability.
* Provides less consumption at unit area by it's special formula.
* Prevents formation of shrinkage cracks due to it's fiber reinforcement.
* Provides resistance to water and moisture due to it's silicone additive.
* Provides esthetic, fine grained and sound surface before paint.

### APPLICATION AREAS

Applied by hand as final layer plaster on G-PLAST-2000, G-PLAST-1200, W-PLAST-1200 or W-PLAST-THERM 1st layer plasters as horizontal and vertical at indoors and outdoors.

### RECOMMENDATIONS

W-PLAST-FINISH finishing plaster, proper paint application with paint primer or coating material (tile, etc.) applications with NYK tile adhesives can be applied on G-PLAST-POWER.

### CONSUMPTION

12 m² / 35 kg package (Application thickness: 2 mm)

| TS EN 998 - 1 / 02.2017<br>Interior and Exterior Fine Hand Plaster for General Purpose (GP) | |
|---|---|
| Dry Bulk Density | 1300 ± 100 g/L |
| Reaction To Fire | Class A1 |
| Compressive Strength | CS IV |
| Adhesion Strength | > 0,2 N/mm² |
| Capillary Water Absorption | W1 |
| Water Vapor Permeability | μ ≤ 15 |
| Thermal Conductivity Coefficient | ≤ 0,45 W/mK (P=%50) |
| Maturation Time | 5 min. |
| Workability Time | 40 min. |
| Drying Time | minimum 2 days |

| RISK SIGNS |
|---|
| **H315:** Causes skin irritation. |
| **H318:** Causes serious eye damage. |
| **H335:** May cause respiratory irritation. |
| **SAFETY SIGNS** |
| **P280:** Wear protective gloves/protective clothing/eye protection/face protection. |
| **P305+P351+P338:** In case of contact with eyes, rinse carefully with water a few minutes. If avalible and easy, remove contact lenses. Continue rinsing. |
| **SHELF LIFE** |
| Unopened original packages can be stored in dry (%60 R.H.) and cool (between +5°C and +25°C) environments for up to 12 months. |

## SURFACE PREPARATION

* Application surfaces should be clean, sound and free from dust.
* Adhesion barrier materials (oil, dirt, dust etc.) should be cleaned from surface, cement-mortar residues should be scraped.
* Gaps and cracks on surface should be repaired with G-REPAIR-1200 or G-REPAIR-800 repair mortars at least 1 day before the application.
* If needed, surface should be cleaned with water.
* PRIMER-ST primer should be used at least 1 hour before the application to reduce water absorption of the surface in very hot & windy weather.
* PRIMER-PLAST should be used at least 1 day before the application to ensure high adhesion strength and reduce water absorption on smooth surfaces such as concrete.

## APPLICATION METHODS

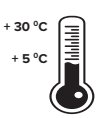
35 kg G-PLAST-POWER fine hand plaster is added on 8 liters of clean water by sprinkling.

Mortar is blended by a low speed mixer or by a trowel to ensure that there are no lumps in it.
Mortar is rested for 5 minutes to mature and mixed again before the application.

G-PLAST-POWER mortar is applied to entire surface uniformly with a maximum thickness of 5 mm by a steel trowel.

When plaster surface starts getting dry, it is corrected with water using finishing trowel.

When plaster surface starts getting dry after the correction application, it is smoothed by using a damp sponge trowel.
After drying time is completed, surface becomes ready for other applications on it.




Ambient and surface temperature should be between +5°C and +30°C during the application.

For better results and high efficiency, plaster profiles should be used at corners.

Plaster mesh should be used at joints of different materials and moving points.


Any additional material (such as lime, cement, gypsum etc.) should not be added in to prepared mortar.

Surface should be protected from airflows and sudden temperature changes during and after the application.


Mortar should not be applied on frozen, melting or within 24 hours danger of frost surfaces.


Hardened-set mortar should not be used by adding water and mixing again.

Mortar should not be applied on unsound and loose surfaces.


# W-PLAST-POWER

## FINE HAND PLASTER

*silicon-perlite-fiber-white*

White cement-based, reinforced with fiber, perlite and chemical additives, resistant to water and moisture, final layer fine hand plaster for interiors and exteriors

TS EN 998-1 / 02.2017

CE 17

ISO 9001:2015

### ADVANTAGES

* W-PLAST-POWER fine plaster provides labor and time advantage, by it's easy preparation and application features.
* Provides high adhesion and durability.
* Provides less consumption at unit area by it's special formula.
* Prevents formation of shrinkage cracks due to it's fiber reinforcement.
* Provides resistance to water and moisture due to it's silicone additive.
* Provides esthetic, fine grained and sound surface before paint.

### APPLICATION AREAS

Applied by hand as final layer plaster on G-PLAST-2000, G-PLAST-1200, W-PLAST-1200 or W-PLAST-THERM 1st layer plasters as horizontal and vertical at indoors and outdoors.

### RECOMMENDATIONS

W-PLAST-FINISH finishing plaster, proper paint application with paint primer or coating material (tile, etc.) applications with NYK tile adhesives can be applied on W-PLAST-POWER.

### CONSUMPTION

12 m² / 35 kg package (Application thickness: 2 mm)

| TS EN 998 - 1 / 02.2017<br>Interior and Exterior Fine Hand Plaster for General Purpose (GP) | |
|---|---|
| Dry Bulk Density | 1300 ± 100 g/L |
| Reaction To Fire | Class A1 |
| Compressive Strength | CS IV |
| Adhesion Strength | > 0,2 N/mm² |
| Capillary Water Absorption | W1 |
| Water Vapor Permeability | μ ≤ 15 |
| Thermal Conductivity Coefficient | ≤ 0,45 W/mK (P=%50) |
| Maturation Time | 5 min. |
| Workability Time | 40 min. |
| Drying Time | minimum 2 days |

| RISK SIGNS |
|---|
| **H315:** Causes skin irritation. |
| **H318:** Causes serious eye damage. |
| **H335:** May cause respiratory irritation. |
| **SAFETY SIGNS** |
| **P280:** Wear protective gloves/protective clothing/eye protection/face protection. |
| **P305+P351+P338:** In case of contact with eyes, rinse carefully with water a few minutes. If avalible and easy, remove contact lenses. Continue rinsing. |
| **SHELF LIFE** |
| Unopened original packages can be stored in dry (%60 R.H.) and cool (between +5°C and +25°C) environments for up to 12 months. |

## SURFACE PREPARATION

* Application surfaces should be clean, sound and free from dust.
* Adhesion barrier materials (oil, dirt, dust etc.) should be cleaned from surface, cement-mortar residues should be scraped.
* Gaps and cracks on surface should be repaired with G-REPAIR-1200 or G-REPAIR-800 repair mortars at least 1 day before the application.
* If needed, surface should be cleaned with water.
* PRIMER-ST primer should be used at least 1 hour before the application to reduce water absorption of the surface in very hot & windy weather.
* PRIMER-PLAST should be used at least 1 day before the application to ensure high adhesion strength and reduce water absorption on smooth surfaces such as concrete.

## APPLICATION METHODS

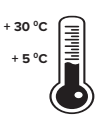
35 kg W-PLAST-POWER fine hand plaster is added on 8 liters of clean water by sprinkling.

Mortar is blended by a low speed mixer or by a trowel to ensure that there are no lumps in it.
Mortar is rested for 5 minutes to mature and mixed again before the application.

W-PLAST-POWER mortar is applied to entire surface uniformly with a maximum thickness of 5 mm by a steel trowel.

When plaster surface starts getting dry, it is smoothed with water using finishing trowel.

When plaster surface starts getting dry after the correction application, it is smoothed by using a damp sponge trowel.
After drying time is completed, surface becomes ready for other applications on it.




Ambient and surface temperature should be between +5°C and +30°C during the application.

For better results and high efficiency, plaster profiles should be used at corners.

Plaster mesh should be used at joints of different materials and moving points.


Any additional material (such as lime, cement, gypsum etc.) should not be added in to prepared mortar.

Surface should be protected from airflows and sudden temperature changes during and after the application.


Mortar should not be applied on frozen, melting or within 24 hours danger of frost surfaces.


Hardened-set mortar should not be used by adding water and mixing again.

Mortar should not be applied on unsound and loose surfaces.


# W-PLAST-FINISH

## SATIN FINISHING PLASTER

*silicon-white*

White cement-based, reinforced with chemical additives, resistant to water and moisture, high covering featured, finishing hand plaster for interiors and exteriors with satiny smooth surface before paint

TS EN 998-1 / 02.2017

CE 17

ISO 9001:2015

### ADVANTAGES

* W-PLAST-FINISH plaster provides labor and time advantage, by it's easy preparation and application features.
* Provides high adhesion and durability.
* Provides less consumption at unit area by it's special formula.
* Prevents formation of shrinkage cracks due to it's special formula.
* Provides resistance to water and moisture due to it's silicone additive.
* Provides a decorative, smooth, sound and straight surface before paint.

### APPLICATION AREAS

Applied by hand as finishing plaster as horizontal and vertical at indoors and outdoors to get a smooth satiny surface before paint, on G-PLAST-MACHINE, W-PLAST-MACHINE, G-PLAST-800, W-PLAST-800, G-PLAST-POWER, W-PLAST-POWER, W-PLAST-THERM plasters.

### RECOMMENDATIONS

Proper paint application with paint primer or decorative covering applications such as wallpaper can be applied on W-PLAST-FINISH.

### CONSUMPTION

16 m² / 20 kg package (Application thickness: 1 mm)

| TS EN 998 - 1 / 02.2017<br>Interior and Exterior Finishing Hand Plaster for General Purpose (GP) | |
|---|---|
| Dry Bulk Density | 1300 ± 100 g/L |
| Reaction To Fire | Class A1 |
| Compressive Strength | CS IV |
| Adhesion Strength | > 0,2 N/mm² |
| Capillary Water Absorption | W1 |
| Water Vapor Permeability | μ ≤ 15 |
| Thermal Conductivity Coefficient | ≤ 0,45 W/mK (P=%50) |
| Maturation Time | 5 min. |
| Workability Time | 40 min. |
| Drying Time | minimum 2 days |

| RISK SIGNS |
|---|
| **H315:** Causes skin irritation. |
| **H318:** Causes serious eye damage. |
| **H335:** May cause respiratory irritation. |
| **SAFETY SIGNS** |
| **P280:** Wear protective gloves/protective clothing/eye protection/face protection. |
| **P305+P351+P338:** In case of contact with eyes, rinse carefully with water a few minutes. If avalible and easy, remove contact lenses. Continue rinsing. |
| **SHELF LIFE** |
| Unopened original packages can be stored in dry (%60 R.H.) and cool (between +5°C and +25°C) environments for up to 12 months. |

## SURFACE PREPARATION

* Application surfaces should be clean, sound and free from dust.
* Adhesion barrier materials (oil, dirt, dust etc.) should be cleaned from surface, cement-mortar residues should be scraped.
* Gaps and cracks on sub-layer plaster surface should be repaired with sub-layer plaster itself at least 2 days before the application.
* If needed, surface should be cleaned with water.
* PRIMER-ST primer should be used at least 1 hour before the application to reduce water absorption of the surface in very hot & windy weather.

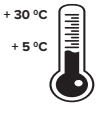
## APPLICATION METHODS

20 kg W-PLAST-FINISH satin finishing plaster is added on 7 liters of clean water by sprinkling.

Mortar is blended by a low speed mixer or by a trowel to ensure that there are no lumps in it.
Mortar is rested for 5 minutes to mature and mixed again before the application.

W-PLAST-FINISH mortar is applied to entire surface max. 2 mm thickness by a steel trowel.

When plaster surface starts getting dry, it is smoothed with water and steel trowel for a few times.
After drying time is completed, surface becomes ready for other applications on it.




Ambient and surface temperature should be between +5°C and +30°C during the application.

Surface should be protected from airflows and sudden temperature changes during and after the application.


Mortar should not be applied on frozen, melting or within 24 hours danger of frost surfaces.


Hardened-set mortar should not be used by adding water and mixing again.


Any additional material (such as lime, cement, gypsum etc.) should not be added in to prepared mortar.

Mortar should not be applied on unsound and loose surfaces.


# G-PLAST-MANTO

## PLASTER FOR THERMAL INSULATION BOARDS

*silicon-fiber-grey*

Grey cement-based, reinforced with fiber and chemical additives, resistant to water and moisture, hand plaster for thermal insulation boards

TS 13687 / 02.2016

G17

ISO 9001:2015

### ADVANTAGES

* G-PLAST-MANTO thermal insulation board plaster provides labor and time advantage, by it's easy preparation and application features.
* Provides high durability and adhesion strength on insulation boards.
* Provides less consumption at unit area by it's special formula.
* Provides resistance to water and moisture due to it's silicone additive.
* Prevents formation of shrinkage cracks due to it's fiber reinforcement.
* Prevents condensation with high water vapor permeability.

### APPLICATION AREAS

Applied by hand on THERMBOARD thermal insulation boards or any kind of thermal insulation panels (EPS, XPS, rockwool, etc.) on walls and ceilings at indoors and outdoors.

### RECOMMENDATIONS

G-PLAST-800, W-PLAST-800, G-PLAST-POWER or W-PLAST-POWER fine hand plasters, W-PLAST-FINISH finishing plaster or W-PLAST-DECO decorative plaster can be applied on G-PLAST-MANTO.

### CONSUMPTION

5 kg/m$^2$ (Application thickness: 4 mm)

| TS 13687 / 02.2016<br>Cement Based Plaster for Thermal Insulation Boards | |
|---|---|
| Dry Bulk Density | ≥ 1150 g/L |
| Dry Bulk Density Of Hardened Plaster | 1300 ± 150 g/L |
| Reaction To Fire | Class A1 |
| Compressive Strength | > 6,0 N/mm$^2$ |
| Bending Strength | > 2,0 N/mm$^2$ |
| Adhesion Strength To Thermal Insulation Board | ≥ 0,08 N/mm$^2$ |
| Capillary Water Absorption | ≤ 0,5 kg/m$^2$dk$^{0,5}$ |
| Water Vapor Permeability | μ ≤ 15 |
| Grain Size (1 mm sieve over) | ≤ 1 % |
| Thermal Conductivity Coefficient | ≤ 0,45 W/mK (P=50%) |
| Maturation Time | 5 min. |
| Workability Time | 40 min. |
| Drying Time | minimum 2 days |

| RISK SIGNS |
|---|
| **H315:** Causes skin irritation. |
| **H318:** Causes serious eye damage. |
| **H335:** May cause respiratory irritation. |
| **SAFETY SIGNS** |
| **P280:** Wear protective gloves/protective clothing/eye protection/face protection. |
| **P305+P351+P338:** In case of contact with eyes, rinse carefully with water a few minutes. If avalible and easy, remove contact lenses. Continue rinsing. |
| **SHELF LIFE** |
| Unopened original packages can be stored in dry (%60 R.H.) and cool (between +5°C and +25°C) environments for up to 12 months. |

## SURFACE PREPARATION

* Thermal insulation board should be well adhered, sound, clean and free from dust.
* Adhesion barrier materials (oil, dirt, dust etc.) should be cleaned from surface, cement-mortar residues should be scraped.
* Gaps between thermal insulation boards should be filled with suitable materials (foam etc.). at least 1 day before the application.

## APPLICATION METHODS

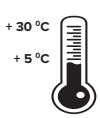
25 kg G-PLAST-MANTO thermal insulation board plaster is added on 6 liters of clean water by sprinkling.

Mortar is blended by a low speed mixer or by a trowel to ensure that there are no lumps in it.
Mortar is rested for 5 minutes to mature and mixed again before the application.

G-PLAST-MANTO mortar is applied uniformly to entire surface as 2 mm thickness as the 1.st layer by a steel trowel.

THERMMESH-A1 glass-fiber mesh should be placed by stretching while 1st layer mortar surface is still fresh. Mesh should be embeded on plaster as gently pressing from bottom to top by a trowel.
It should be avoided from folding of glass-fiber mesh.
To prevent crack formation, glass-fiber meshes should be placed as endpoints min. 10 cm overlapped.
For better results, THERMPROFILE-10 corner profiles should be used at every corner.
To prevent crack formation, corner profiles should be placed as 1 cm overlapped on THERMMESH-A1 mesh.

When plaster surface starts getting dry, G-PLAST-MANTO mortar is applied to entire surface as 1 mm thickness as the 2.nd layer by a trowel.
After drying time is completed, surface becomes ready for other applications on it.




Ambient and surface temperature should be between +5°C and +30°C during the application.


Any additional material (such as lime, cement, gypsum etc.) should not be added in to prepared mortar.

Mortar should not be applied on unsound and loose surfaces.

Surface should be protected from airflows and sudden temperature changes during and after the application.


Mortar should not be applied on frozen, melting or within 24 hours danger of frost surfaces.


Hardened-set mortar should not be used by adding water and mixing again.


# W-PLAST-DECO

## DECORATIVE PLASTER

*silicon-power-white*

White cement-based,
mineral textured,
reinforced with chemical additives,
resistant to water and moisture,
high covering featured,
exterior decorative plaster
which is applied by hand
to provide a decorative surface
(line pattern or grain texture)
before paint

TS 7847 / 06.2012

G17

ISO 9001:2015

### ADVANTAGES

* W-PLAST-DECO decorative plaster provides labor and time advantage, by it's easy preparation and application features.
* Provides high durability and adhesion strength on insulation boards.
* Provides less consumption at unit area by it's special formula.
* Provides resistance to water and moisture due to it's silicone additive.
* Prevents crack formation and surface abrasion due to it's special formula.
* Provides esthetic and rough (grain or line texture) surface before paint.
* Prevents surface from thermal shocks and external effects.

### APPLICATION AREAS

Applied by hand as coarse finishing plaster as horizontal and vertical at outdoors on G-PLAST-2000, G-PLAST-1200, W-PLAST-1200, W-PLAST-THERM 1st layer plasters and also on G-PLAST-MANTO thermal insulation board plaster of Nur Construction Chemicals Thermal Insulation Systems.

### RECOMMENDATIONS

Proper paint application with paint primer can be applied on W-PLAST-DECO.

### CONSUMPTION

10 $m^2$ / 25 kg package (Application thickness: 2 mm)

| TS 7847 / 06.2012<br>Classification TS EN 1062-1 : E5-S4-V1-W1-A0-C0-K2 | |
|---|---|
| Dry Film Thickness | > 400; E5 |
| Grain Size | > 1500; S4 |
| Water Vapor Transfer Rate | V1 |
| Water Transfer Rate | W1 |
| Cracks Covering Feature | A0 |
| $CO_2$ Permeability | C0 |
| Mold Growth Resistance | K2 |
| Maturation Time | 5 min. |
| Workability Time | 40 min. |
| Drying Time | minimum 2 days |

| RISK SIGNS |
|---|
| **H315:** Causes skin irritation. |
| **H318:** Causes serious eye damage. |
| **H335:** May cause respiratory irritation. |
| **SAFETY SIGNS** |
| **P280:** Wear protective gloves/protective clothing/eye protection/face protection. |
| **P305+P351+P338:** In case of contact with eyes, rinse carefully with water a few minutes. If avalible and easy, remove contact lenses. Continue rinsing. |
| **SHELF LIFE** |
| Unopened original packages can be stored in dry (%60 R.H.) and cool (between +5°C and +25°C) environments for up to 12 months. |

## SURFACE PREPARATION

* Application surfaces should be clean, sound and free from dust.
* Adhesion barrier materials (oil, dirt, dust etc.) should be cleaned from surface, cement-mortar residues should be scraped.
* Gaps and cracks on sub-layer plaster surface should be repaired with sub-layer plaster itself at least 2 days before the application.
* If needed, surface should be cleaned with water.
* PRIMER-ST primer should be used at least 1 hour before the application to reduce water absorption of the surface in very hot and windy weather.

## APPLICATION METHODS

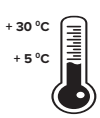
25 kg W-PLAST-DECO decorative plaster is added on 6 liters of clean water by sprinkling.

Mortar is blended by a low speed mixer or by a trowel to ensure that there are no lumps in it.
Mortar is rested for 5 minutes to mature and mixed again before the application.

W-PLAST-DECO is applied to entire surface uniformly with a thickness of 2 mm by a steel trowel as the finishing layer.
Not to get any difference pattern on the surface, same water-plaster ratio should be used for each mixing.

Approximately 10 min. after application, surface is decorated with vertical, horizontal or circular motions using a plastic trowel.

After drying time is completed, surface becomes ready for other applications on it.




Ambient and surface temperature should be between +5°C and +30°C during the application.


Mortar should not be applied on frozen, melting or within 24 hours danger of frost surfaces.


Any additional material (such as lime, cement, gypsum etc.) should not be added in to prepared mortar.

Surface should be protected from airflows and sudden temperature changes during and after the application.


Hardened-set mortar should not be used by adding water and mixing again.

Mortar should not be applied on unsound and loose surfaces.


# W-PLAST-THERM

## THERMAL INSULATION PLASTER

*silicon-perlite-fiber-white*

White cement and perlite based, reinforced with fiber and chemical additives, resistant to water and moisture, thermal insulation hand plaster which provides thermal-fire-sound insulation at indoors and outdoors

TS EN 998-1 / 02.2017

CE 17

ISO 9001:2015

### ADVANTAGES

* W-PLAST-THERM plaster provides labor and time advantage, by it's easy preparation and application features.
* Provides high adhesion and durability.
* Provides less consumption at unit area by it's special formula.
* Provides easy preparation and application.
* Prevents formation of shrinkage cracks due to it's fiber reinforcement.
* Provides resistance to water and moisture due to it's silicone additive.
* Prevents increasing the building load due to it's low density feature.
* Keeps buildings warm in winter, cool in summer by it's thermal insulation feature. Reduces heating-cooling costs of buildings.
* Supports buildings sound insulation with it's sound absorption feature.
* Fireproof, resistant to temperatures up to 1200˚C. Provides fire isolation.
* Provides buildings to breathe by it's air permeability feature.

### APPLICATION AREAS

Applied by hand on G-PLAST-2000, G-PLAST-1200, W-PLAST-1200 1st layer plasters and also on brick, gas concrete, pumise, briquette, concrete, painted/plastered walls & ceilings at all new & old buildings, as horizontal and vertical at indoors and outdoors.

### RECOMMENDATIONS

G-PLAST-800, W-PLAST-800, G-PLAST-POWER or W-PLAST-POWER fine hand plasters, W-PLAST-DECO decorative plaster, W-PLAST-FINISH finishing plaster or gypsum plaster can be applied on W-PLAST-THERM at a maximum application thickness of 5mm.

### CONSUMPTION

2 m² / 10 kg package (Application thickness: 2 cm)

| TS EN 998 - 1 / 02.2017<br>Interior and Exterior Thermal Insulation Plaster<br>(T1) | |
|---|---|
| Dry Bulk Density | 300 ± 150 g/L |
| Reaction To Fire | Class A1 |
| Compressive Strength | CS I |
| Adhesion Strength | > 0,05 N/mm² |
| Capillary Water Absorption | W1 |
| Water Vapour Permeability | μ ≤ 15 |
| Thermal Conductivity Coefficient | λ ≤ 0,10 W/mK |
| Maturation Time | 5 min. |
| Workability Time | 40 min. |
| Drying Time | minimum 7 days |

| RISK SIGNS |
|---|
| **H315:** Causes skin irritation. |
| **H319:** Causes serious eye irritation. |
| **H335:** May cause respiratory irritation. |
| **SAFETY SIGNS** |
| **P280:** Wear protective gloves/protective clothing/eye protection/face protection. |
| **P305+P351+P338:** In case of contact with eyes, rinse carefully with water a few minutes. If avalible and easy, remove contact lenses. Continue rinsing. |
| **SHELF LIFE** |
| Unopened original packages can be stored in dry (%60 R.H.) and cool (between +5°C and +25°C) environments for up to 12 months. |

## SURFACE PREPARATION

* Application surfaces should be clean, sound and free from dust.
* Adhesion barrier materials (oil, dirt, dust etc.) should be cleaned from surface, cement-mortar residues should be scraped.
* Gaps and cracks on surface should be repaired with G-REPAIR-1200 or G-REPAIR-800 repair mortars at least 1 day before the application.
* If needed, surface should be cleaned with water.
* PRIMER-ST primer should be used at least 1 hour before the application to reduce water absorption of the surface in very hot and windy weather.
* Smooth surfaces should be notched.
* PRIMER-PLAST primer should be used at least 1 day before the application to ensure high adhesion strength and reduce water absorption on smooth surfaces such as concrete.

## APPLICATION METHODS

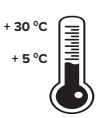
10 kg W-PLAST-THERM plaster is added on 11 liters of clean water by sprinkling.
In order to obtain a homogeneous mortar, one full package should be used in each mixture and the water-dust ratio should be considered. Do not mix and use half package.

Mortar is blended by a low speed mixer or by a trowel to ensure that there are no lumps in it.
Mortar is rested for 5 minutes to mature and mixed again before the application.

W-PLAST-THERM mortar is applied to entire surface uniformly with an 1,5 cm application thickness by a 15 mm notched trowel.
When 1st layer surface is still fresh, plaster levelling bars is placed and fixed in accordance with the application thickness.

2nd layer application should be done after 1 day from 1st layer.
W-PLAST-THERM mortar is applied to entire surface uniformly with an 1,5 cm application thickness by a steel trowel.

After the application, fresh mortar surface is smoothed by a template.
After 2nd layer application, plaster levelling bars are taken off from the surface and bar gaps are filled with prepared W-PLAST-THERM mortar.
If total W-PLAST-THERM application thickness is equal or thinner than 3 cm, (depending on weather conditions) it takes at least 7 days for the surface to become ready for upper applications.
If total W-PLAST-THERM application thickness is thicker than 3 cm, (depending on weather conditions) it takes at least 14 days for the surface to become ready for upper applications.



Ambient and surface temperature should be between +5°C and +30°C during the application.


For better results and high efficiency, plaster profiles should be used at corners.

Any additional material (such as lime, cement, gypsum etc.) should not be added in to prepared mortar.


Mortar should not be applied on unsound and loose surfaces.


Surface should be protected from airflows and sudden temperature changes during and after the application.

Mortar should not be applied on frozen, melting or within 24 hours danger of frost surfaces.


Plaster mesh should be used at joints of different materials and moving points.

Hardened-set mortar should not be used by adding water and mixing again.


ADHESIVE
MORTARS

- **G-FIX-ECO** / C1 CLASS - ADHESIVE FOR TILES *economic-grey*
- **G-FIX-ST** / C1T CLASS - ADHESIVE FOR TILES *standard-grey*
- **G-FIX-EXTRA** / C1TE CLASS - ADHESIVE FOR TILES *extra-grey*
- **W-FIX-EXTRA** / C1TE CLASS - ADHESIVE FOR TILES *extra-white*
- **G-FIX-FLEX** / C1TES1 CLASS - ADHESIVE FOR TILES *flex-grey*
- **G-FIX-POWER** / C2TE CLASS - ADHESIVE FOR TILES *power-grey*
- **G-FIX-POWERFLEX** / C2TES2 CLASS - ADHESIVE FOR TILES *power-flex-grey*
- **W-FIX-GRANITE** / C2TE CLASS - ADHESIVE FOR TILES *power-white*
- **W-FIX-GRANIFLEX** / C2TES2 CLASS - ADHESIVE FOR TILES *power-flex-white*
- **G-FIX-POOL** / C2TE CLASS - ADHESIVE FOR TILES *antibacterial-grey*
- **G-FIX-RAPIDPOWER** / C2FT CLASS - ADHESIVE FOR TILES *rapid-grey*
- **G-FIX-MANTO** / ADHESIVE FOR THERMAL INSULATION BOARDS *power-grey*
- **G-FIX-DECO** / ADHESIVE FOR DECORATIVE ELEMENTS *power-grey*
- **G-FIX-BLOCK** / ADHESIVE FOR LAYING BRICKS & CONCRETE BLOCKS *grey*


# G-FIX-ECO / C1

## ADHESIVE FOR TILES

*economic-grey*

Normal setting,
grey cement based,
tile adhesive (C1)

TS EN 12004-1 / 04.2017

CE 17

ISO 9001:2015

## ADVANTAGES

* G-FIX-ECO tile adhesive provides labor and time advantage, by it's easy preparation and application features.
* Provides high adhesion and durability.
* Provides less consumption at unit area by it's special formula.
* Prevents an economic solution for lightweight tile applications.

## APPLICATION AREAS

Applied by hand to adhere lightweight (maximum 10 kg/m²) coating materials on low water absorbent surfaces such as cementious plasters, concrete surfaces etc.as horizontal and vertical at indoors and outdoors.

## CONSUMPTION

6,5 m² / 25 kg package
(Application thickness: 6 mm notched trowel)

| TS EN 12004-1 / 04.2017 Normal Setting Cement Based Adhesive (C1) | |
|---|---|
| Reaction To Fire | Class A1 |
| Initial Adhesion Strength | ≥ 0,5 N/mm² |
| Adhesion Strength After Water Immersion | ≥ 0,5 N/mm² |
| Adhesion Strength After Heat Ageing | ≥ 0,5 N/mm² |
| Adhesion Strength After Freeze-Thaw Cycles | ≥ 0,5 N/mm² |
| Adhesion Strength After Open Time | ≥ 0,5 N/mm² |
| Maturation Time | 5 min. |
| Open Time | 20 min. |
| Workability Time | 45 min. |
| Time Required For Joint Filler Application | 24 hr. minimum |

| RISK SIGNS |
|---|
| **H315:** Causes skin irritation. |
| **H318:** Causes serious eye damage. |
| **H335:** May cause respiratory irritation. |
| **SAFETY SIGNS** |
| **P280:** Wear protective gloves/protective clothing/eye protection/face protection. |
| **P305+P351+P338:** In case of contact with eyes, rinse carefully with water a few minutes. If avalible and easy, remove contact lenses. Continue rinsing. |
| **SHELF LIFE** |
| Unopened original packages can be stored in dry (%60 R.H.) and cool (between +5°C and +25°C) environments for up to 12 months. |

## SURFACE PREPARATION

* Application surfaces should be clean, sound and free from dust.
* Adhesion barrier materials (oil, dirt, dust etc.) should be cleaned from surface, cement-mortar residues should be scraped.
* Gaps and cracks on surface should be repaired with G-REPAIR-1200 or G-REPAIR-800 repair mortars at least 1 day before the application.
* If needed, surface should be cleaned with water.
* PRIMER-ST primer should be used at least 1 hour before the application to reduce water absorption of the surface in very hot and windy weather.

## APPLICATION METHODS

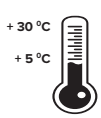
25 kg G-FIX-ECO tile adhesive is added on 6 liters of clean water by sprinkling.

Mortar is blended by a low speed mixer or by a trowel to ensure that there are no lumps in it.
Mortar is rested for 5 minutes to mature and mixed again before the application.

G-FIX-ECO mortar is applied to entire surface with circular motions by a 6 mm notched trowel.
To get high adhesion strength for the coating materials heavier than 7 kg/m$^2$, G-FIX-ECO mortar should be applied on backside of coating material too by a notched trowel before fixing.

Coating material is placed on surface by setting fuga gaps.
If a film layer formed on mortar surface, mortar should not be used.
Mortar should be scraped off from surface and new mortar should be applied.

Coating material is fixed to the surface by gently tapping with a rubber mallet.
Joint filler application should be done at least 24 hours after fixing.




Ambient and surface temperature should be between +5°C and +30°C during the application.

For 14 days after vertical applications, any weight should not be hung on, no load should be applied and no mounting should be done on the surface.


Any additional material (such as lime, cement, gypsum etc.) should not be added in to prepared mortar.

Mortar should not be applied on unsound and loose surfaces.

Surface should be protected from airflows and sudden temperature changes during and after the application.


Mortar should not be applied on frozen, melting or within 24 hours danger of frost surfaces.

For 24 hours after horizontal applications, ground should not be opened to traffic or any weight should be placed on it.


Hardened-set mortar should not be used by adding water and mixing again.


# G-FIX-ST / C1T

## ADHESIVE FOR TILES

*standard-grey*

Normal setting,
grey cement based,
tile adhesive
with reduced slip (C1T)

TS EN 12004-1 / 04.2017

CE 17

ISO 9001:2015

## ADVANTAGES

* G-FIX-ST tile adhesive provides labor and time advantage, by it's easy preparation and application features.
* Provides high adhesion and durability.
* Provides less consumption at unit area by it's special formula.
* Prevents slipping of coating materials at vetical applications.

## APPLICATION AREAS

Applied by hand to adhere lightweight (maximum 15 kg/m²) coating materials on low water absorbent surfaces such as cementious plasters, concrete surfaces etc.as horizontal and vertical at indoors and outdoors.

## CONSUMPTION

6,5 m² / 25 kg package
(Application thickness: 6 mm notched trowel)

| TS EN 12004-1 / 04.2017<br>Normal Setting Cement Based Adhesive With Reduced Slip (C1T) | |
|---|---|
| Reaction To Fire | Class A1 |
| Initial Adhesion Strength | ≥ 0,5 N/mm² |
| Adhesion Strength After Water Immersion | ≥ 0,5 N/mm² |
| Adhesion Strength After Heat Ageing | ≥ 0,5 N/mm² |
| Adhesion Strength After Freeze-Thaw Cycles | ≥ 0,5 N/mm² |
| Adhesion Strength After Open Time | ≥ 0,5 N/mm² |
| Slip | ≤ 0,5 mm |
| Maturation Time | 5 min. |
| Open Time | 20 min. |
| Workability Time | 45 min. |
| Time Required For The Joint Application | 24 hr. minimum |

**RISK SIGNS**

**H315:** Causes skin irritation.

**H318:** Causes serious eye damage.

**H335:** May cause respiratory irritation.

**SAFETY SIGNS**

**P280:** Wear protective gloves/protective clothing/eye protection/face protection.

**P305+P351+P338:** In case of contact with eyes, rinse carefully with water a few minutes. If avalible and easy, remove contact lenses. Continue rinsing.

**SHELF LIFE**

Unopened original packages can be stored in dry (%60 R.H.) and cool (between +5°C and +25°C) environments for up to 12 months.

## SURFACE PREPARATION

* Application surfaces should be clean, sound and free from dust.
* Adhesion barrier materials (oil, dirt, dust etc.) should be cleaned from surface, cement-mortar residues should be scraped.
* Gaps and cracks on surface should be repaired with G-REPAIR-1200 or G-REPAIR-800 repair mortars at least 1 day before the application.
* If needed, surface should be cleaned with water.
* PRIMER-ST primer should be used at least 1 hour before the application to reduce water absorption of the surface in very hot and windy weather.

## APPLICATION METHODS

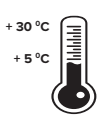
25 kg G-FIX-ST tile adhesive is added on 6,25 liters of clean water by sprinkling.

Mortar is blended by a low speed mixer or by a trowel to ensure that there are no lumps in it.
Mortar is rested for 5 minutes to mature and mixed again before the application.

G-FIX-ST mortar is applied to entire surface with circular motions by a 6 mm notched trowel.
To get high adhesion strength for the coating materials heavier than 10 kg/m², G-FIX-ST mortar should be applied on backside of coating material too by a notched trowel before fixing.

Coating material is placed on surface by setting fuga gaps.
If a film layer formed on mortar surface, mortar should not be used.
Mortar should be scraped off from surface and new mortar should be applied.

Coating material is fixed to the surface by gently tapping with a rubber mallet.
Joint filler application should be done at least 24 hours after fixing.




Ambient and surface temperature should be between +5°C and +30°C during the application.

For 14 days after vertical applications, any weight should not be hung on, no load should be applied and no mounting should be done on the surface.


Any additional material (such as lime, cement, gypsum etc.) should not be added in to prepared mortar.

Mortar should not be applied on unsound and loose surfaces.

Surface should be protected from airflows and sudden temperature changes during and after the application.


Mortar should not be applied on frozen, melting or within 24 hours danger of frost surfaces.

For 24 hours after horizontal applications, ground should not be opened to traffic or any weight should be placed on it.


Hardened-set mortar should not be used by adding water and mixing again.


# G-FIX-EXTRA / C1TE

## ADHESIVE FOR TILES

*extra-grey*

Normal setting
grey cement based
tile adhesive
with reduced slip and
extended open time
(C1TE)

TS EN 12004-1 / 04.2017

CE 17

ISO 9001:2015

### ADVANTAGES

* G-FIX-EXTRA tile adhesive provides labor and time advantage, by it's easy preparation and application features.
* Provides high adhesion and durability.
* Provides less consumption at unit area by it's special formula.
* Prevents slipping of coating materials at vertical applications.
* Provides extended open time.

### APPLICATION AREAS

Applied by hand to adhere medium weight (maximum 20 kg/m²) coating materials on low water absorbent surfaces such as cementious plasters, concrete surfaces etc.as horizontal and vertical at indoors and outdoors.

### CONSUMPTION

5,5 m² / 25 kg package
(Application thickness: 8 mm notched trowel)

| TS EN 12004-1 / 04.2017<br>Normal Setting Cement Based Adhesive With Reduced Slip And Extended Open Time (C1TE) | |
|---|---|
| Reaction To Fire | Class A1 |
| Initial Adhesion Strength | ≥ 0,5 N/mm² |
| Adhesion Strength After Water Immersion | ≥ 0,5 N/mm² |
| Adhesion Strength After Heat Ageing | ≥ 0,5 N/mm² |
| Adhesion Strength After Freeze-Thaw Cycles | ≥ 0,5 N/mm² |
| Adhesion Strength After Open Time | ≥ 0,5 N/mm² |
| Slip | ≤ 0,5 mm |
| Maturation Time | 5 min. |
| Open Time | 30 min. |
| Workability Time | 45 min. |
| Time Required For The Joint Application | 24 hr. minimum |

**RISK SIGNS**

**H315:** Causes skin irritation.

**H318:** Causes serious eye damage.

**H335:** May cause respiratory irritation.

**SAFETY SIGNS**

**P280:** Wear protective gloves/protective clothing/eye protection/face protection.

**P305+P351+P338:** In case of contact with eyes, rinse carefully with water a few minutes. If avalible and easy, remove contact lenses. Continue rinsing.

**SHELF LIFE**

Unopened original packages can be stored in dry (%60 R.H.) and cool (between +5°C and +25°C) environments for up to 12 months.

## SURFACE PREPARATION

* Application surfaces should be clean, sound and free from dust.
* Adhesion barrier materials (oil, dirt, dust etc.) should be cleaned from surface, cement-mortar residues should be scraped.
* Gaps and cracks on surface should be repaired with G-REPAIR-1200 or G-REPAIR-800 repair mortars at least 1 day before the application.
* If needed, surface should be cleaned with water.
* PRIMER-ST primer should be used at least 1 hour before the application to reduce water absorption of the surface in very hot and windy weather.

## APPLICATION METHODS

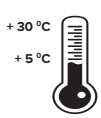
25 kg G-FIX-EXTRA tile adhesive is added on 6,5 liters of clean water by sprinkling.

Mortar is blended by a low speed mixer or by a trowel to ensure that there are no lumps in it.
Mortar is rested for 5 minutes to mature and mixed again before the application.

G-FIX-EXTRA mortar is applied to entire surface with circular motions by a 8 mm notched trowel.
To get high adhesion strength for the coating materials heavier than 15 kg/m$^2$, G-FIX-EXTRA mortar should be applied on backside of coating material too by a notched trowel before fixing.

Coating material is placed on surface by setting fuga gaps.
If a film layer formed on mortar surface, mortar should not be used.
Mortar should be scraped off from surface and new mortar should be applied.

Coating material is fixed to the surface by gently tapping with a rubber mallet.
Joint filler application should be done at least 24 hours after fixing.




Ambient and surface temperature should be between +5°C and +30°C during the application.

For 14 days after vertical applications, any weight should not be hung on, no load should be applied and no mounting should be done on the surface.


Any additional material (such as lime, cement, gypsum etc.) should not be added in to prepared mortar.

Mortar should not be applied on unsound and loose surfaces.

Surface should be protected from airflows and sudden temperature changes during and after the application.


Mortar should not be applied on frozen, melting or within 24 hours danger of frost surfaces.

For 24 hours after horizontal applications, ground should not be opened to traffic or any weight should be placed on it.


Hardened-set mortar should not be used by adding water and mixing again.


# W-FIX-EXTRA / C1TE

## ADHESIVE FOR TILES

*extra-white*

Normal setting
white cement based
tile adhesive
with reduced slip and
extended open time
(C1TE)

TS EN 12004-1 / 04.2017

CE 17

ISO 9001:2015

## ADVANTAGES

* W-FIX-EXTRA tile adhesive provides labor and time advantage, by it's easy preparation and application features.
* Provides high adhesion and durability.
* Provides less consumption at unit area by it's special formula.
* Prevents slipping of coating materials at vertical applications.
* Provides extended open time.

## APPLICATION AREAS

Applied by hand to adhere medium weight (maximum 20 kg/m²) coating materials on low water absorbent surfaces such as cementious plasters, concrete surfaces etc.as horizontal and vertical at indoors and outdoors.

## CONSUMPTION

5,5 m² / 25 kg package
(Application thickness: 8 mm notched trowel)

| TS EN 12004-1 / 04.2017<br>Normal Setting Cement Based Adhesive With Reduced Slip And Extended Open Time (C1TE) | |
|---|---|
| Reaction To Fire | Class A1 |
| Initial Adhesion Strength | ≥ 0,5 N/mm² |
| Adhesion Strength After Water Immersion | ≥ 0,5 N/mm² |
| Adhesion Strength After Heat Ageing | ≥ 0,5 N/mm² |
| Adhesion Strength After Freeze-Thaw Cycles | ≥ 0,5 N/mm² |
| Adhesion Strength After Open Time | ≥ 0,5 N/mm² |
| Slip | ≤ 0,5 mm |
| Maturation Time | 5 min. |
| Open Time | 30 min. |
| Workability Time | 45 min. |
| Time Required For The Joint Application | 24 hr. minimum |

**RISK SIGNS**

**H315:** Causes skin irritation.

**H318:** Causes serious eye damage.

**H335:** May cause respiratory irritation.

**SAFETY SIGNS**

**P280:** Wear protective gloves/protective clothing/eye protection/face protection.

**P305+P351+P338:** In case of contact with eyes, rinse carefully with water a few minutes. If avalible and easy, remove contact lenses. Continue rinsing.

**SHELF LIFE**

Unopened original packages can be stored in dry (%60 R.H.) and cool (between +5°C and +25°C) environments for up to 12 months.

## SURFACE PREPARATION

* Application surfaces should be clean, sound and free from dust.
* Adhesion barrier materials (oil, dirt, dust etc.) should be cleaned from surface, cement-mortar residues should be scraped.
* Gaps and cracks on surface should be repaired with G-REPAIR-1200 or G-REPAIR-800 repair mortars at least 1 day before the application.
* If needed, surface should be cleaned with water.
* PRIMER-ST primer should be used at least 1 hour before the application to reduce water absorption of the surface in very hot and windy weather.

## APPLICATION METHODS

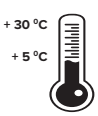
25 kg W-FIX-EXTRA tile adhesive is added on 6,5 liters of clean water by sprinkling.

Mortar is blended by a low speed mixer or by a trowel to ensure that there are no lumps in it.
Mortar is rested for 5 minutes to mature and mixed again before the application.

W-FIX-EXTRA mortar is applied to entire surface with circular motions by a 8 mm notched trowel.
To get high adhesion strength for the coating materials heavier than 15 kg/m², W-FIX-EXTRA mortar should be applied on backside of coating material too by a notched trowel before fixing.

Coating material is placed on surface by setting fuga gaps.
If a film layer formed on mortar surface, mortar should not be used.
Mortar should be scraped off from surface and new mortar should be applied.

Coating material is fixed to the surface by gently tapping with a rubber mallet.
Joint filler application should be done at least 24 hours after fixing.




Ambient and surface temperature should be between +5°C and +30°C during the application.

For 14 days after vertical applications, any weight should not be hung on, no load should be applied and no mounting should be done on the surface.


Any additional material (such as lime, cement, gypsum etc.) should not be added in to prepared mortar.

Mortar should not be applied on unsound and loose surfaces.

Surface should be protected from airflows and sudden temperature changes during and after the application.


Mortar should not be applied on frozen, melting or within 24 hours danger of frost surfaces.

For 24 hours after horizontal applications, ground should not be opened to traffic or any weight should be placed on it.


Hardened-set mortar should not be used by adding water and mixing again.


# G-FIX-FLEX / C1TES1

## ADHESIVE FOR TILES

*flex-grey*

Normal setting
grey cement based
deformable-flex
tile adhesive
with reduced slip and
extended open time
(C1TES1)

TS EN 12004-1 / 04.2017

CE 17

ISO 9001:2015

### ADVANTAGES

* G-FIX-FLEX tile adhesive provides labor and time advantage, by it's easy preparation and application features.
* Provides high adhesion and durability.
* Provides less consumption at unit area by it's special formula.
* Prevents slipping of coating materials at vertical applications.
* Provides extended open time.
* Provides resistance to surface tension caused by sudden temperature changes due to it's S1 class flexibility feature.

### APPLICATION AREAS

Applied by hand to adhere medium weight (maximum 20 kg/m²) coating materials on low water absorbent surfaces such as cementious plasters, concrete surfaces etc.as horizontal and vertical at indoors and outdoors.

### CONSUMPTION

5,5 m² / 25 kg package
(Application thickness: 8 mm notched trowel)

| TS EN 12004-1 / 04.2017<br>Normal Setting Deformable Cement Based Adhesive With Reduced Slip And Extended Open Time (C1TES1) | |
|---|---|
| Reaction To Fire | Class A1 |
| Initial Adhesion Strength | ≥ 0,5 N/mm² |
| Adhesion Strength After Water Immersion | ≥ 0,5 N/mm² |
| Adhesion Strength After Heat Ageing | ≥ 0,5 N/mm² |
| Adhesion Strength After Freeze-Thaw Cycles | ≥ 0,5 N/mm² |
| Adhesion Strength After Open Time | ≥ 0,5 N/mm² |
| Slip | ≤ 0,5 mm |
| Transverse Deformation | 2,5 mm ≤ S1 ≤ 5 mm |
| Maturation Time | 5 min. |
| Open Time | 30 min. |
| Workability Time | 45 min. |
| Time Required For The Joint Application | 24 hr. minimum |

| RISK SIGNS |
|---|
| **H315:** Causes skin irritation. |
| **H318:** Causes serious eye damage. |
| **H335:** May cause respiratory irritation. |
| **SAFETY SIGNS** |
| **P280:** Wear protective gloves/protective clothing/eye protection/face protection. |
| **P305+P351+P338:** In case of contact with eyes, rinse carefully with water a few minutes. If avalible and easy, remove contact lenses. Continue rinsing. |
| **SHELF LIFE** |
| Unopened original packages can be stored in dry (%60 R.H.) and cool (between +5°C and +25°C) environments for up to 12 months. |

## SURFACE PREPARATION

* Application surfaces should be clean, sound and free from dust.
* Adhesion barrier materials (oil, dirt, dust etc.) should be cleaned from surface, cement-mortar residues should be scraped.
* Gaps and cracks on surface should be repaired with G-REPAIR-1200 or G-REPAIR-800 repair mortars at least 1 day before the application.
* If needed, surface should be cleaned with water.
* PRIMER-ST primer should be used at least 1 hour before the application to reduce water absorption of the surface in very hot and windy weather.

## APPLICATION METHODS

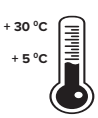
25 kg G-FIX-FLEX tile adhesive is added on 7,5 liters of clean water by sprinkling.

Mortar is blended by a low speed mixer or by a trowel to ensure that there are no lumps in it.
Mortar is rested for 5 minutes to mature and mixed again before the application.

G-FIX-FLEX mortar is applied to entire surface with circular motions by a 8 mm notched trowel.
To get high adhesion strength for the coating materials heavier than 15 kg/m², G-FIX-FLEX mortar should be applied on backside of coating material too by a notched trowel before fixing.

Coating material is placed on surface by setting fuga gaps.
If a film layer formed on mortar surface, mortar should not be used.
Mortar should be scraped off from surface and new mortar should be applied.

Coating material is fixed to the surface by gently tapping with a rubber mallet.
Joint filler application should be done at least 24 hours after fixing.




Ambient and surface temperature should be between +5°C and +30°C during the application.

For 14 days after vertical applications, any weight should not be hung on, no load should be applied and no mounting should be done on the surface.


Any additional material (such as lime, cement, gypsum etc.) should not be added in to prepared mortar.

Mortar should not be applied on unsound and loose surfaces.

Surface should be protected from airflows and sudden temperature changes during and after the application.


Mortar should not be applied on frozen, melting or within 24 hours danger of frost surfaces.

For 24 hours after horizontal applications, ground should not be opened to traffic or any weight should be placed on it.


Hardened-set mortar should not be used by adding water and mixing again.


# G-FIX-POWER / C2TE

## ADHESIVE FOR TILES

*power-grey*

Improved grey cement based tile adhesive with reduced slip and extended open time (C2TE)

TS EN 12004-1 / 04.2017

ISO 9001:2015

## ADVANTAGES

* G-FIX-POWER tile adhesive provides labor and time advantage, by it's easy preparation and application features.
* Improved with special additivies so it provides very high adhesion and durability even at high and low temperatures.
* Provides less consumption at unit area by it's special formula.
* Prevents slipping of coating materials at vertical applications.
* Provides extended open time.

## APPLICATION AREAS

Applied by hand to adhere high weight (maximum 50 kg/m²) coating materials on low water absorbent surfaces such as cementious plasters, concrete surfaces etc. as horizontal and vertical at indoors and outdoors.

## CONSUMPTION

5,5 m² / 25 kg package
(Application thickness: 10 mm notched trowel)

| TS EN 12004-1 / 04.2017 Improved Cement Based Adhesive With Reduced Slip And Extended Open Time (C2TE) | |
|---|---|
| Reaction To Fire | Class A1 |
| Initial Adhesion Strength | ≥ 1,0 N/mm² |
| Adhesion Strength After Water Immersion | ≥ 1,0 N/mm² |
| Adhesion Strength After Heat Ageing | ≥ 1,0 N/mm² |
| Adhesion Strength After Freeze-Thaw Cycles | ≥ 1,0 N/mm² |
| Adhesion Strength After Open Time | ≥ 0,5 N/mm² |
| Slip | ≤ 0,5 mm |
| Maturation Time | 5 min. |
| Open Time | 30 min. |
| Workability Time | 45 min. |
| Time Required For The Joint Application | 24 hr. minimum |

**RISK SIGNS**

**H315:** Causes skin irritation.

**H318:** Causes serious eye damage.

**H335:** May cause respiratory irritation.

**SAFETY SIGNS**

**P280:** Wear protective gloves/protective clothing/eye protection/face protection.

**P305+P351+P338:** In case of contact with eyes, rinse carefully with water a few minutes. If avalible and easy, remove contact lenses. Continue rinsing.

**SHELF LIFE**

Unopened original packages can be stored in dry (%60 R.H.) and cool (between +5°C and +25°C) environments for up to 12 months.

## SURFACE PREPARATION

* Application surfaces should be clean, sound and free from dust.
* Adhesion barrier materials (oil, dirt, dust etc.) should be cleaned from surface, cement-mortar residues should be scraped.
* Gaps and cracks on surface should be repaired with G-REPAIR-1200 or G-REPAIR-800 repair mortars at least 1 day before the application.
* If needed, surface should be cleaned with water.
* PRIMER-ST primer should be used at least 1 hour before the application to reduce water absorption of the surface in very hot and windy weather.

## APPLICATION METHODS

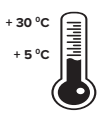
25 kg G-FIX-POWER tile adhesive is added on 7,5 liters of clean water by sprinkling.

Mortar is blended by a low speed mixer or by a trowel to ensure that there are no lumps in it.
Mortar is rested for 5 minutes to mature and mixed again before the application.

G-FIX-POWER mortar is applied to entire surface with circular motions by a 10 mm notched trowel.
To get high adhesion strength for the coating materials heavier than 30 kg/m², G-FIX-POWER mortar should be applied on backside of coating material too by a notched trowel before fixing.

Coating material is placed on surface by setting fuga gaps.
If a film layer formed on mortar surface, mortar should not be used.
Mortar should be scraped off from surface and new mortar should be applied.

Coating material is fixed to the surface by gently tapping with a rubber mallet.
Joint filler application should be done at least 24 hours after fixing.




Ambient and surface temperature should be between +5°C and +30°C during the application.

For 14 days after vertical applications, any weight should not be hung on, no load should be applied and no mounting should be done on the surface.


Any additional material (such as lime, cement, gypsum etc.) should not be added in to prepared mortar.

Mortar should not be applied on unsound and loose surfaces.

Surface should be protected from airflows and sudden temperature changes during and after the application.


Mortar should not be applied on frozen, melting or within 24 hours danger of frost surfaces.

For 24 hours after horizontal applications, ground should not be opened to traffic or any weight should be placed on it.


Hardened-set mortar should not be used by adding water and mixing again.


# G-FIX-POWERFLEX / C2TES2

## ADHESIVE FOR TILES

*powerflex-grey*

Improved grey cement based highly deformable-super flex tile adhesive with reduced slip and extended open time (C2TES2)

TS EN 12004-1 / 04.2017

CE 17

ISO 9001:2015

### ADVANTAGES

* G-FIX-POWERFLEX tile adhesive provides labor and time advantage, by it's easy preparation and application features.
* Improved with special additivies so it provides very high adhesion and durability even at high and low temperatures.
* Provides less consumption at unit area by it's special formula.
* Prevents slipping of coating materials at vertical applications.
* Provides extended open time.
* Provides resistance to surface tension caused by sudden temperature changes due to it's S2 class flexibility feature.

### APPLICATION AREAS

Applied by hand to adhere high weight (maximum 50 kg/m²) coating materials on low water absorbent surfaces such as cementious plasters, concrete surfaces etc.as horizontal and vertical at indoors and outdoors.

### CONSUMPTION

5,5 m² / 25 kg package
(Application thickness: 10 mm notched trowel)

| TS EN 12004-1 / 04.2017<br>Improved Highly Deformable Cement Based Adhesive With Reduced Slip And Extended Open Time (C2TES2) | |
|---|---|
| Reaction To Fire | Class A1 |
| Initial Adhesion Strength | ≥ 1,0 N/mm² |
| Adhesion Strength After Water Immersion | ≥ 1,0 N/mm² |
| Adhesion Strength After Heat Ageing | ≥ 1,0 N/mm² |
| Adhesion Strength After Freeze-Thaw Cycles | ≥ 1,0 N/mm² |
| Adhesion Strength After Open Time | ≥ 0,5 N/mm² |
| Slip | ≤ 0,5 mm |
| Transverse Deformation | S2 ≥ 5 mm |
| Maturation Time | 5 min. |
| Open Time | 30 min. |
| Workability Time | 45 min. |
| Time Required For The Joint Application | 24 hr. minimum |

| RISK SIGNS |
|---|
| **H315:** Causes skin irritation. |
| **H318:** Causes serious eye damage. |
| **H335:** May cause respiratory irritation. |
| **SAFETY SIGNS** |
| **P280:** Wear protective gloves/protective clothing/eye protection/face protection. |
| **P305+P351+P338:** In case of contact with eyes, rinse carefully with water a few minutes. If avalible and easy, remove contact lenses. Continue rinsing. |
| **SHELF LIFE** |
| Unopened original packages can be stored in dry (%60 R.H.) and cool (between +5°C and +25°C) environments for up to 12 months. |

## SURFACE PREPARATION

* Application surfaces should be clean, sound and free from dust.
* Adhesion barrier materials (oil, dirt, dust etc.) should be cleaned from surface, cement-mortar residues should be scraped.
* Gaps and cracks on surface should be repaired with G-REPAIR-1200 or G-REPAIR-800 repair mortars at least 1 day before the application.
* If needed, surface should be cleaned with water.
* PRIMER-ST primer should be used at least 1 hour before the application to reduce water absorption of the surface in very hot and windy weather.

## APPLICATION METHODS

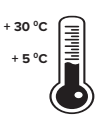
25 kg G-FIX-POWERFLEX tile adhesive is added on 7,5 liters of clean water by sprinkling.

Mortar is blended by a low speed mixer or by a trowel to ensure that there are no lumps in it.
Mortar is rested for 5 minutes to mature and mixed again before the application.

G-FIX-POWERFLEX mortar is applied to entire surface with circular motions by a 10 mm notched trowel.
To get high adhesion strength for the coating materials heavier than 30 kg/m², G-FIX-POWERFLEX mortar should be applied on backside of coating material too by a notched trowel before fixing.

Coating material is placed on surface by setting fuga gaps.
If a film layer formed on mortar surface, mortar should not be used.
Mortar should be scraped off from surface and new mortar should be applied.

Coating material is fixed to the surface by gently tapping with a rubber mallet.
Joint filler application should be done at least 24 hours after fixing.




Ambient and surface temperature should be between +5°C and +30°C during the application.

For 14 days after vertical applications, any weight should not be hung on, no load should be applied and no mounting should be done on the surface.


Any additional material (such as lime, cement, gypsum etc.) should not be added in to prepared mortar.

Mortar should not be applied on unsound and loose surfaces.

Surface should be protected from airflows and sudden temperature changes during and after the application.


Mortar should not be applied on frozen, melting or within 24 hours danger of frost surfaces.

For 24 hours after horizontal applications, ground should not be opened to traffic or any weight should be placed on it.


Hardened-set mortar should not be used by adding water and mixing again.


# W-FIX-GRANITE / C2TE

## ADHESIVE FOR TILES

*power-white*

Improved white cement based tile adhesive with reduced slip and extended open time (C2TE)

TS EN 12004-1 / 04.2017

CE 17

ISO 9001:2015

## ADVANTAGES

* W-FIX-GRANITE tile adhesive provides labor and time advantage, by it's easy preparation and application features.
* Improved with special additivies so it provides very high adhesion and durability even at high and low temperatures.
* Provides less consumption at unit area by it's special formula.
* Prevents slipping of coating materials at vertical applications.
* Provides extended open time.

## APPLICATION AREAS

Applied by hand to adhere high weight (maximum 50 kg/m²) coating materials on low water absorbent surfaces such as cementious plasters, concrete surfaces etc.as horizontal and vertical at indoors and outdoors.

## CONSUMPTION

5,5 m² / 25 kg package
(Application thickness: 10 mm notched trowel)

| TS EN 12004-1 / 04.2017 Improved Cement Based Adhesive With Reduced Slip And Extended Open Time (C2TE) | |
|---|---|
| Reaction To Fire | Class A1 |
| Initial Adhesion Strength | ≥ 1,0 N/mm² |
| Adhesion Strength After Water Immersion | ≥ 1,0 N/mm² |
| Adhesion Strength After Heat Ageing | ≥ 1,0 N/mm² |
| Adhesion Strength After Freeze-Thaw Cycles | ≥ 1,0 N/mm² |
| Adhesion Strength After Open Time | ≥ 0,5 N/mm² |
| Slip | ≤ 0,5 mm |
| Maturation Time | 5 min. |
| Open Time | 30 min. |
| Workability Time | 45 min. |
| Time Required For The Joint Application | 24 hr. minimum |

**RISK SIGNS**

**H315:** Causes skin irritation.

**H318:** Causes serious eye damage.

**H335:** May cause respiratory irritation.

**SAFETY SIGNS**

**P280:** Wear protective gloves/protective clothing/eye protection/face protection.

**P305+P351+P338:** In case of contact with eyes, rinse carefully with water a few minutes. If avalible and easy, remove contact lenses. Continue rinsing.

**SHELF LIFE**

Unopened original packages can be stored in dry (%60 R.H.) and cool (between +5°C and +25°C) environments for up to 12 months.

## SURFACE PREPARATION

* Application surfaces should be clean, sound and free from dust.
* Adhesion barrier materials (oil, dirt, dust etc.) should be cleaned from surface, cement-mortar residues should be scraped.
* Gaps and cracks on surface should be repaired with G-REPAIR-1200 or G-REPAIR-800 repair mortars at least 1 day before the application.
* If needed, surface should be cleaned with water.
* PRIMER-ST primer should be used at least 1 hour before the application to reduce water absorption of the surface in very hot and windy weather.

## APPLICATION METHODS

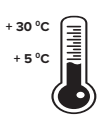
25 kg W-FIX-GRANITE tile adhesive is added on 7,5 liters of clean water by sprinkling.

Mortar is blended by a low speed mixer or by a trowel to ensure that there are no lumps in it.
Mortar is rested for 5 minutes to mature and mixed again before the application.

W-FIX-GRANITE mortar is applied to entire surface with circular motions by a 10 mm notched trowel.
To get high adhesion strength for the coating materials heavier than 30 kg/m², W-FIX-GRANITE mortar should be applied on backside of coating material too by a notched trowel before fixing.

Coating material is placed on surface by setting fuga gaps.
If a film layer formed on mortar surface, mortar should not be used.
Mortar should be scraped off from surface and new mortar should be applied.

Coating material is fixed to the surface by gently tapping with a rubber mallet.
Joint filler application should be done at least 24 hours after fixing.




Ambient and surface temperature should be between +5°C and +30°C during the application.

For 14 days after vertical applications, any weight should not be hung on, no load should be applied and no mounting should be done on the surface.


Any additional material (such as lime, cement, gypsum etc.) should not be added in to prepared mortar.

Mortar should not be applied on unsound and loose surfaces.

Surface should be protected from airflows and sudden temperature changes during and after the application.


Mortar should not be applied on frozen, melting or within 24 hours danger of frost surfaces.

For 24 hours after horizontal applications, ground should not be opened to traffic or any weight should be placed on it.


Hardened-set mortar should not be used by adding water and mixing again.


# W-FIX-GRANIFLEX / C2TES2

## ADHESIVE FOR TILES

*powerflex-white*

Improved white cement based highly deformable-super flex tile adhesive with reduced slip and extended open time (C2TES2)

TS EN 12004-1 / 04.2017

CE 17

ISO 9001:2015

### ADVANTAGES

* W-FIX-GRANIFLEX tile adhesive provides labor and time advantage, by it's easy preparation and application features.
* Improved with special additivies so it provides very high adhesion and durability even at high and low temperatures.
* Provides less consumption at unit area by it's special formula.
* Prevents slipping of coating materials at vertical applications.
* Provides extended open time.
* Provides resistance to surface tension caused by sudden temperature changes due to it's S2 class flexibility feature.

### APPLICATION AREAS

Applied by hand to adhere high weight (maximum 50 kg/m²) coating materials on low water absorbent surfaces such as cementious plasters, concrete surfaces etc.as horizontal and vertical at indoors and outdoors.

### CONSUMPTION

5,5 m² / 25 kg package
(Application thickness: 10 mm notched trowel)

| TS EN 12004-1 / 04.2017<br>Improved Highly Deformable Cement Based Adhesive With Reduced Slip And Extended Open Time (C2TES2) | |
|---|---|
| Reaction To Fire | Class A1 |
| Initial Adhesion Strength | ≥ 1,0 N/mm² |
| Adhesion Strength After Water Immersion | ≥ 1,0 N/mm² |
| Adhesion Strength After Heat Ageing | ≥ 1,0 N/mm² |
| Adhesion Strength After Freeze-Thaw Cycles | ≥ 1,0 N/mm² |
| Adhesion Strength After Open Time | ≥ 0,5 N/mm² |
| Slip | ≤ 0,5 mm |
| Transverse Deformation | S2 ≥ 5 mm |
| Maturation Time | 5 min. |
| Open Time | 30 min. |
| Workability Time | 45 min. |
| Time Required For The Joint Application | 24 hr. minimum |

| RISK SIGNS |
|---|
| **H315:** Causes skin irritation. |
| **H318:** Causes serious eye damage. |
| **H335:** May cause respiratory irritation. |
| **SAFETY SIGNS** |
| **P280:** Wear protective gloves/protective clothing/eye protection/face protection. |
| **P305+P351+P338:** In case of contact with eyes, rinse carefully with water a few minutes. If avalible and easy, remove contact lenses. Continue rinsing. |
| **SHELF LIFE** |
| Unopened original packages can be stored in dry (%60 R.H.) and cool (between +5°C and +25°C) environments for up to 12 months. |

## SURFACE PREPARATION

* Application surfaces should be clean, sound and free from dust.
* Adhesion barrier materials (oil, dirt, dust etc.) should be cleaned from surface, cement-mortar residues should be scraped.
* Gaps and cracks on surface should be repaired with G-REPAIR-1200 or G-REPAIR-800 repair mortars at least 1 day before the application.
* If needed, surface should be cleaned with water.
* PRIMER-ST primer should be used at least 1 hour before application to reduce water absorption of the surface in very hot and windy weather.

## APPLICATION METHODS

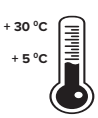
25 kg W-FIX-GRANIFLEX tile adhesive is added on 7,5 liters of clean water by sprinkling.

Mortar is blended by a low speed mixer or by a trowel to ensure that there are no lumps in it.
Mortar is rested for 5 minutes to mature and mixed again before the application.

W-FIX-GRANIFLEX mortar is applied to entire surface with circular motions by a 10 mm notched trowel.
To get high adhesion strength for the coating materials heavier than 30 kg/m$^2$, W-FIX-GRANIFLEX mortar should be applied on backside of coating material too by a notched trowel before fixing.

Coating material is placed on surface by setting fuga gaps.
If a film layer formed on mortar surface, mortar should not be used.
Mortar should be scraped off from surface and new mortar should be applied.

Coating material is fixed to the surface by gently tapping with a rubber mallet.
Joint filler application should be done at least 24 hours after fixing.




Ambient and surface temperature should be between +5°C and +30°C during the application.

For 14 days after vertical applications, any weight should not be hung on, no load should be applied and no mounting should be done on the surface.


Any additional material (such as lime, cement, gypsum etc.) should not be added in to prepared mortar.

Mortar should not be applied on unsound and loose surfaces.

Surface should be protected from airflows and sudden temperature changes during and after the application.


Mortar should not be applied on frozen, melting or within 24 hours danger of frost surfaces.

For 24 hours after horizontal applications, ground should not be opened to traffic or any weight should be placed on it.


Hardened-set mortar should not be used by adding water and mixing again.


# G-FIX-POOL / C2TE

## ADHESIVE FOR TILES

*silicon-power-grey*

Improved grey cement based tile adhesive with reduced slip, extended open time and resistance to water-moisture (C2TE)

TS EN 12004-1 / 04.2017

CE 17

ISO 9001:2015

## ADVANTAGES

* G-FIX-POOL tile adhesive provides labor and time advantage, by it's easy preparation and application features.
* Improved with special additivies so it provides very high adhesion and durability even at high and low temperatures.
* Provides less consumption at unit area by it's special formula.
* Prevents slipping of coating materials at vertical applications.
* Provides extended open time.
* Provides resistance to water and moisture due to it's silicone additive.

## APPLICATION AREAS

Applied by hand to adhere high weight (maximum 50 kg/m²) coating materials on low water absorbent surfaces (cementious plasters, concrete surfaces etc.) which are heavily exposed to water as horizontal and vertical at indoors and outdoors.

## CONSUMPTION

5,5 m² / 25 kg package
(Application thickness: 10 mm notched trowel)

| TS EN 12004-1 / 04.2017 Improved Cement Based Adhesive With Reduced Slip And Extended Open Time (C2TE) | |
|---|---|
| Reaction To Fire | Class A1 |
| Initial Adhesion Strength | ≥ 1,0 N/mm² |
| Adhesion Strength After Water Immersion | ≥ 1,0 N/mm² |
| Adhesion Strength After Heat Ageing | ≥ 1,0 N/mm² |
| Adhesion Strength After Freeze-Thaw Cycles | ≥ 1,0 N/mm² |
| Adhesion Strength After Open Time | ≥ 0,5 N/mm² |
| Slip | ≤ 0,5 mm |
| Maturation Time | 5 min. |
| Open Time | 30 min. |
| Workability Time | 45 min. |
| Time Required For The Joint Application | 24 hr. minimum |

**RISK SIGNS**

**H315:** Causes skin irritation.

**H318:** Causes serious eye damage.

**H335:** May cause respiratory irritation.

**SAFETY SIGNS**

**P280:** Wear protective gloves/protective clothing/eye protection/face protection.

**P305+P351+P338:** In case of contact with eyes, rinse carefully with water a few minutes. If avalible and easy, remove contact lenses. Continue rinsing.

**SHELF LIFE**

Unopened original packages can be stored in dry (%60 R.H.) and cool (between +5°C and +25°C) environments for up to 12 months.

## SURFACE PREPARATION

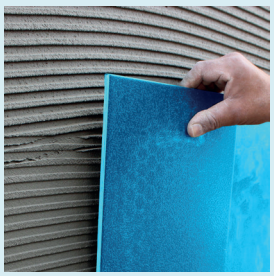
* Application surfaces should be clean, sound and free from dust.
* Adhesion barrier materials (oil, dirt, dust etc.) should be cleaned from surface, cement-mortar residues should be scraped.
* Gaps and cracks on surface should be repaired with G-REPAIR-1200 or G-REPAIR-800 repair mortars at least 1 day before the application.
* If needed, surface should be cleaned with water.
* PRIMER-ST primer should be used at least 1 hour before the application to reduce water absorption of the surface in very hot and windy weather.

## APPLICATION METHODS

25 kg G-FIX-POOL tile adhesive is added on 7,5 liters of clean water by sprinkling.

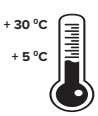
Mortar is blended by a low speed mixer or by a trowel to ensure that there are no lumps in it.
Mortar is rested for 5 minutes to mature and mixed again before the application.

G-FIX-POOL mortar is applied to entire surface with circular motions by a 10 mm notched trowel.
To get high adhesion strength for the coating materials heavier than 30 kg/m$^2$, G-FIX-POOL mortar should be applied on backside of coating material too by a notched trowel before fixing.



Coating material is placed on surface by setting fuga gaps.
If a film layer formed on mortar surface, mortar should not be used.
Mortar should be scraped off from surface and new mortar should be applied.

Coating material is fixed to the surface by gently tapping with a rubber mallet.
Joint filler application should be done at least 24 hours after fixing.




Ambient and surface temperature should be between +5°C and +30°C during the application.

For 14 days after vertical applications, any weight should not be hung on, no load should be applied and no mounting should be done on the surface.


Any additional material (such as lime, cement, gypsum etc.) should not be added in to prepared mortar.

Mortar should not be applied on unsound and loose surfaces.

Surface should be protected from airflows and sudden temperature changes during and after the application.


Mortar should not be applied on frozen, melting or within 24 hours danger of frost surfaces.

For 24 hours after horizontal applications, ground should not be opened to traffic or any weight should be placed on it.


Hardened-set mortar should not be used by adding water and mixing again.


# G-FIX-RAPIDPOWER / C2FT

## ADHESIVE FOR TILES

*rapid-power-grey*

Improved
fast setting
grey cement based
tile adhesive
with reduced slip
(C2FT)

TS EN 12004-1 / 04.2017

CE 17

ISO 9001:2015

### ADVANTAGES

* G-FIX-RAPIDPOWER tile adhesive provides labor and time advantage, by it's easy preparation and application features.
* Improved with special additivies so it provides very high adhesion and durability even at high and low temperatures.
* Provides less consumption at unit area by it's special formula.
* Prevents slipping of coating materials at vertical applications.
* Prevents very high adhesion in very short time by it's fast setting feature.

### APPLICATION AREAS

Applied by hand to adhere high weight (maximum 50 kg/m²) coating materials on low water absorbent surfaces such as cementious plasters, concrete surfaces etc.as horizontal and vertical at indoors and outdoors where surface need to be opened to trafic very quickly.

### CONSUMPTION

5,5 m² / 25 kg package
(Application thickness: 10 mm notched trowel)

| TS EN 12004-1 / 04.2017<br>Improved Fast Setting Cement Based Adhesive With Reduced Slip (C2FT) | |
|---|---|
| Reaction To Fire | Class A1 |
| Early Adhesion Strength (max. 6 hr. later) | ≥ 0,5 N/mm² |
| Initial Adhesion Strength | ≥ 1,0 N/mm² |
| Adhesion Strength After Water Immersion | ≥ 1,0 N/mm² |
| Adhesion Strength After Heat Ageing | ≥ 1,0 N/mm² |
| Adhesion Strength After Freeze-Thaw Cycles | ≥ 1,0 N/mm² |
| Adhesion Strength After Open Time | ≥ 0,5 N/mm² |
| Slip | ≤ 0,5 mm |
| Maturation Time | 1 min. |
| Open Time | 10 min. |
| Workability Time | 15 min. |
| Time Required For The Joint Application | 6 hr. minimum |

**RISK SIGNS**

**H315:** Causes skin irritation.

**H318:** Causes serious eye damage.

**H335:** May cause respiratory irritation.

**SAFETY SIGNS**

**P280:** Wear protective gloves/protective clothing/eye protection/face protection.

**P305+P351+P338:** In case of contact with eyes, rinse carefully with water a few minutes. If avalible and easy, remove contact lenses. Continue rinsing.

**SHELF LIFE**

Unopened original packages can be stored in dry (%60 R.H.) and cool (between +5°C and +25°C) environments for up to 12 months.

## SURFACE PREPARATION

* Application surfaces should be clean, sound and free from dust.
* Adhesion barrier materials (oil, dirt, dust etc.) should be cleaned from surface, cement-mortar residues should be scraped.
* Gaps and cracks on surface should be repaired with G-REPAIR-1200 or G-REPAIR-800 repair mortars at least 1 day before the application.
* If needed, surface should be cleaned with water.
* PRIMER-ST primer should be used at least 1 hour before the application to reduce water absorption of the surface in very hot and windy weather.

## APPLICATION METHODS

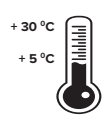
Adhesive/water ratio is is determined as 7,5 liters of clean water for 25 kg G-FIX-RAPIDPOWER.
As G-FIX-RAPIDPOWER is a rapid setting adhesive, it should be mixed in small amounts and should be applied without any delay after mixing.
Tile adhesive is added on clean water by sprinkling.

Mortar is blended by a low speed mixer to ensure that there are no lumps in it.

G-FIX-RAPIDPOWER mortar is applied to entire surface with circular motions by a 10 mm notched trowel.
To get high adhesion strength for coating materials heavier than 30 kg/m$^2$, G-FIX-RAPIDPOWER mortar should be applied on the backside of coating material too by a notched trowel before fixing.
As G-FIX-RAPIDPOWER is a fast setting adhesive, it is necessary to work by dividing the application surface into small areas.
If mortar is applied on a large area, it can start setting before fixing of the coating materials.

Coating material is placed on surface by setting fuga gaps.
If a film layer formed on mortar surface, mortar should not be used.
Mortar should be scraped off from surface and new mortar should be applied.

Coating material is fixed to the surface by gently tapping with a rubber mallet.
It is recommended that the application tools be cleaned immediately after the application.
Joint filler application should be done at least 6 hours after fixing.




Ambient and surface temperature should be between +5°C and +30°C during the application.

For 24 hours after vertical applications, any weight should not be hung on, no load should be applied and no mounting should be done on the surface.


Any additional material (such as lime, cement, gypsum etc.) should not be added in to prepared mortar.

Mortar should not be applied on unsound and loose surfaces.

Surface should be protected from airflows and sudden temperature changes during and after the application.


Mortar should not be applied on frozen, melting or within 24 hours danger of frost surfaces.

For 6 hours after horizontal applications, ground should not be opened to traffic or any weight should be placed on it.


Hardened-set mortar should not be used by adding water and mixing again.


# G-FIX-MANTO

## ADHESIVE FOR THERMAL INSULATION BOARDS

*power-grey*

Grey cement based adhesive for thermal insulation boards with reduced slip and improved adhesion strength

TS 13566 / 06.2013

G16

ISO 9001:2015

### ADVANTAGES

* G-FIX-MANTO adhesive for thermal insulation boards provides labor and time advantage, by it's easy preparation and application features.
* Improved with special additivies so it provides very high adhesion and durability even at high and low temperatures.
* Provides less consumption at unit area by it's special formula.
* Provides easy preparation and application.
* Prevents slipping of thermal insulation boards in vertical applications.
* Provides extended open time.

### APPLICATION AREAS

Applied by hand to adhere THERMBOARD thermal insulation boards or any kind of thermal insulation panels (EPS, XPS, rockwool, etc.) as horizontal and vertical at indoors and outdoors.

### CONSUMPTION

5 $m^2$ / 25 kg package (Application thickness: 10 mm)

| TS 13566 / 06.2013<br>Cement Based Adhesive For Thermal Insulation Boards | |
|---|---|
| Reaction To Fire | Class A1 |
| Dry Bulk Density Of Fresh Mortar | ≥ 1000 g/L |
| Compressive Strength | > 6,0 N/mm² |
| Bending Strength | > 2,0 N/mm² |
| Adhesion Strength To Substrate | > 0,5 N/mm² |
| Adhesion Strength To Thermal Insulation Board | ≥ 0,08 N/mm² |
| Water Absorption (After 30 min.) | ≤ 5 g |
| Water Absorption (After 240 min.) | ≤ 10 g |
| Grain Size (1 mm sieve over) | ≤ 1 % |
| Maturation Time | 5 min. |
| Workability Time | 1 hr. |
| Time For Anchor Application | 1 day |

| RISK SIGNS |
|---|
| **H315:** Causes skin irritation. |
| **H318:** Causes serious eye damage. |
| **H335:** May cause respiratory irritation. |
| **SAFETY SIGNS** |
| **P280:** Wear protective gloves/protective clothing/eye protection/face protection. |
| **P305+P351+P338:** In case of contact with eyes, rinse carefully with water a few minutes. If avalible and easy, remove contact lenses. Continue rinsing. |
| **SHELF LIFE** |
| Unopened original packages can be stored in dry (%60 R.H.) and cool (between +5°C and +25°C) environments for up to 12 months. |

## SURFACE PREPARATION

* Application surfaces should be clean, sound and free from dust.
* Adhesion barrier materials (oil, dirt, dust etc.) should be cleaned from surface, cement-mortar residues should be scraped.
* Gaps and cracks on surface should be repaired with G-REPAIR-1200 or G-REPAIR-800 repair mortars at least 1 day before the application.
* If needed, surface should be cleaned with water.
* PRIMER-ST primer should be used at least 1 hour before the application to reduce water absorption of the surface in very hot and windy weather.

## APPLICATION METHODS

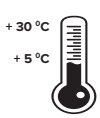
25 kg G-FIX-MANTO thermal insulation board adhesive is added on 6 liters of clean water by sprinkling.

Mortar is blended by a low speed mixer or by a trowel to ensure that there are no lumps in it.
Mortar is rested for 5 minutes to mature and mixed again before the application.

G-FIX-MANTO mortar is applied uniformly to entire backside surface of the thermal insulation board by leaving 5 mm from the edges of board with circular motions using minimum 10 mm notched trowel.
Mortar shouldn't overflow from edges of the plate during applicaiton.
To get high adhesion strength for fixing of large size-heavy boards, G-FIX-MANTO mortar should be applied both on backside of boards and on to the application surface. Double-sided adhesion should be done.

Thermal insulation board is placed without fuga gaps and fixed to the surface by gently tapping with a rubber mallet.
After fixing of thermal insulation board, mortars overflowing from edges should be cleaned not to have gaps between boards.

Minimum 24 hours after fixing of thermal insulation boards, 6 holes are drilled for each 1 $m^2$ by a drill with a suitable width, especially at the junctions of the plates. THERMFIX-10 anchors are inserted into these holes and fixed by tapping with a rubber mallet.
After anchor application is finished, board surface becomes ready for plaster application on it.




Ambient and surface temperature should be between +5°C and +30°C during the application.

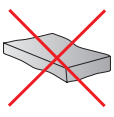
If a film layer formed on mortar, it should be scraped from the surface and a new mortar should be applied.


Any additional material (such as lime, cement, gypsum etc.) should not be added in to prepared mortar.

Mortar should not be applied on unsound and loose surfaces.

Surface should be protected from airflows and sudden temperature changes during and after the application.


Mortar should not be applied on frozen, melting or within 24 hours danger of frost surfaces.



Thermal insulation boards should be straight, sound and dry. Improper and damaged boards will reduce the adhesion strength of the product.


Hardened-set mortar should not be used by adding water and mixing again.


# G-FIX-DECO

## ADHESIVE FOR DECORATIVE ELEMENTS

*silicon-power-grey*

Grey cement based adhesive for decorative foam elements and thermal insulation boards, with reduced slip, improved adhesion strength and resistance to water-moisture

TS 13566 / 06.2013 · G16 · ISO 9001:2015

### ADVANTAGES

* G-FIX-DECO adhesive for decorative elements provides labor and time advantage due to it's easy application feature.
* Improved with special additivies so it provides very high adhesion and durability even at high and low temperatures.
* Provides less consumption at unit area due to it's special formula.
* Prevents slipping of foam boards and elements boards in vertical applications.
* Provides extended open time.
* Provides resistance to water and moisture with it's silicone additive.

### APPLICATION AREAS

Applied by hand to adhere decorative foam elements (frames, molds, cornices, etc) and THERMBOARD thermal insulation boards or any kind of thermal insulation panels (EPS, XPS, rockwool, etc.) as horizontal and vertical at indoors and outdoors.

### CONSUMPTION

5 m² / 25 kg package (Application thickness: 10 mm)

| TS 13566 / 06.2013<br>Cement Based Adhesive For Thermal Insulation Boards | |
|---|---|
| Reaction To Fire | Class A1 |
| Dry Bulk Density Of Fresh Mortar | ≥ 1000 g/L |
| Compressive Strength | > 6,0 N/mm² |
| Bending Strength | > 2,0 N/mm² |
| Adhesion Strength To Substrate | > 0,5 N/mm² |
| Adhesion Strength To Thermal Insulation Board | ≥ 0,08 N/mm² |
| Water Absorption (After 30 min.) | ≤ 5 g |
| Water Absorption (After 240 min.) | ≤ 10 g |
| Grain Size (1 mm sieve over) | ≤ 1 % |
| Maturation Time | 5 min. |
| Workability Time | 1 hr. |
| Time For Anchor Application | 24 hr. |

**RISK SIGNS**

**H315:** Causes skin irritation.

**H318:** Causes serious eye damage.

**H335:** May cause respiratory irritation.

**SAFETY SIGNS**

**P280:** Wear protective gloves/protective clothing/eye protection/face protection.

**P305+P351+P338:** In case of contact with eyes, rinse carefully with water a few minutes. If avalible and easy, remove contact lenses. Continue rinsing.

**SHELF LIFE**

Unopened original packages can be stored in dry (%60 R.H.) and cool (between +5°C and +25°C) environments for up to 12 months.

## SURFACE PREPARATION

* Application surfaces should be clean, sound and free from dust.
* Adhesion barrier materials (oil, dirt, dust etc.) should be cleaned from surface, cement-mortar residues should be scraped.
* Gaps and cracks on surface should be repaired with G-REPAIR-1200 or G-REPAIR-800 repair mortars at least 1 day before the application.
* If needed, surface should be cleaned with water.
* PRIMER-ST primer should be used at least 1 hour before the application to reduce water absorption of the surface in very hot and windy weather.

## APPLICATION METHODS

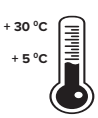
25 kg G-FIX-DECO adhesive is added on 6 liters of clean water by sprinkling.

Mortar is blended by a low speed mixer or by a trowel to ensure that there are no lumps in it.
Mortar is rested for 5 minutes to mature and mixed again before the application.

G-FIX-DECO mortar is applied uniformly to entire backside surface of foam elelement by leaving 5 mm from the edges of board with circular motions using minimum 8 mm notched trowel.
Mortar shouldn't overflow from edges of elements during application.
To get high adhesion strength for foam elements which have smooth back side surface, grooves may be made by a notched trowel before mortar application.
To get high adhesion strength for fixing of large size-heavy elements, G-FIX-DECO mortar should be applied both on backside of element and on to the application surface. Double-sided adhesion should be done.

Decorative foam elements are placed on surface without leaving gaps.
To get high adhesion strength, foam elements are fixed to the surface by gently tapping with a rubber mallet.
After fixing of foam elements, mortars overflowing from the edges should be cleaned not to have gaps between the elements.

After drying time is completed, decorative foam elements become ready for other applications on it.




Ambient and surface temperature should be between +5°C and +30°C during the application.

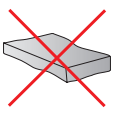
If a film layer formed on mortar, it should be scraped from the surface and a new mortar should be applied.


Any additional material (such as lime, cement, gypsum etc.) should not be added in to prepared mortar.

Mortar should not be applied on unsound and loose surfaces.

Surface should be protected from airflows and sudden temperature changes during and after the application.


Mortar should not be applied on frozen, melting or within 24 hours danger of frost surfaces.



Decorative foam elements should be straight, sound and dry. Improper and damaged elements will reduce the adhesion strength of product.


Hardened-set mortar should not be used by adding water and mixing again.


# G-FIX-BLOCK

## ADHESIVE FOR LAYING OF CONCRETE BLOCKS & BRICKS

*power-grey*

High performance, reinforced with chemical additives, grey cement based gas concrete-pumice-brick laying adhesive for geneal purpose

TS EN 998-2 / 01.2017

CE 17

ISO 9001:2015

### ADVANTAGES

* G-FIX-BLOCK laying adhesive provides labor and time advantage, by it's easy prepation and application features.
* Provides high durability and adhesion strength.
* Provides less consumption at unit area by it's special formula.
* Prevents crack formation with it's special formula.
* Provides extended open time.

### APPLICATION AREAS

Applied by hand for laying of gas concretes-briquettes-bricks at indoors and outdoors as vertical.

### CONSUMPTION

9 $m^2$ / 25 kg package (Application thickness: 8 mm)

| TS EN 998-2 / 01.2017<br>Laying Mortar For General Purpose | |
|---|---|
| Reaction To Fire | Class A1 |
| Dry Bulk Density Of Hardened Mortar | 1350 ± 100 g/L |
| Chloride Content | ≤ 1,0 % |
| Compression Strength | ≥ 5,0 N/$mm^2$ (M5) |
| Water Vapor Permeability | 5/20 |
| Water Absorption | ≤ 2,0 kg/$m^2$.$min^{0,5}$ |
| Maturation Time | 5 min. |
| Workability Time | 120 min. |
| Drying time | minimum 24 hours |

| RISK SIGNS |
|---|
| **H315:** Causes skin irritation. |
| **H318:** Causes serious eye damage. |
| **H335:** May cause respiratory irritation. |
| **SAFETY SIGNS** |
| **P280:** Wear protective gloves/protective clothing/eye protection/face protection. |
| **P305+P351+P338:** In case of contact with eyes, rinse carefully with water a few minutes. If avalible and easy, remove contact lenses. Continue rinsing. |
| **SHELF LIFE** |
| Unopened original packages can be stored in dry (%60 R.H.) and cool (between +5°C and +25°C) environments for up to 12 months. |

## SURFACE PREPARATION

* Application surfaces should be clean, sound and free from dust.
* Adhesion barrier materials (oil, dirt, dust etc.) should be cleaned from surface, cement-mortar residues should be scraped.
* If needed, surface should be cleaned with water.
* PRIMER-ST primer should be used at least 1 hour before the application to reduce water absorption of the surface in very hot and windy weather.

## APPLICATION METHODS

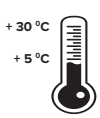
25 kg G-FIX-BLOCK laying adhesive is added on 6 liters of clean water by sprinkling.

Mortar is blended by a low speed mixer or by a trowel to ensure that there are no lumps in it.
Mortar is rested for 5 minutes to mature and mixed again before the application.

G-FIX-BLOCK mortar is applied to entire fixing surface uniformly and evenly by a minimum 8 mm notched trowel.
To get high adhesion for fixing of large size-heavy laying materials, G-FIX-BLOCK should be applied both on to the laying material and on to the application surface. Double-sided adhesion should be done.

After the mortar application, laying material is placed through plumb line of the wall by setting fuga gaps.

Laying material is fixed to the surface by gently tapping with a rubber mallet.
After drying time is completed, wall becomes ready for other applications on it.




Ambient and surface temperature should be between +5°C and +30°C during the application.

If a film layer formed on mortar, it should be scraped from the surface and a new mortar should be applied.


Any additional material (such as lime, cement, gypsum etc.) should not be added in to prepared mortar.

Mortar should not be applied with unsound and improper laying materials.

Surface should be protected from airflows and sudden temperature changes during and after the application.


Mortar should not be applied on frozen, melting or within 24 hours danger of frost surfaces.

For 28 days after the application, any weight should not be hung on, no load should be applied and no mounting should be done on the surface.


Hardened-set mortar should not be used by adding water and mixing again.


JOINT FILLER
MORTARS

- **C-FUGA-ST** / **JOINT FILLER MORTAR** *standard-colored*
- **C-FUGA-FLEX** / **JOINT FILLER MORTAR** *silicon-flex-colored*
- **C-FUGA-SILFLEX** / **JOINT FILLER MORTAR** *silicon-power-flex-colored*
- **C-FUGA-POOL** / **JOINT FILLER MORTAR** *antibacterial-silicone-power-flex-colored*


# C-FUGA-ST / CG1

## JOINT FILLER MORTAR

*standard*

Normal cement based, grouting / joint filler mortar with 30 color options (CG1)

TS EN 13888 / 03.2010

ISO 9001:2015

### ADVANTAGES

* C-FUGA-ST joint filler mortar provides labor and time advantage, by it's easy preparation and application features.
* Provides high adhesion and durability, prevents crack formation.
* Provides less consumption at unit area by it's special formula.
* Prevents getting dirty easily and changing color by time.
* Provides smooth and esthetic appearance for joints.
* Provides color options compatible with all kinds of coating materials due to it's wide color range.

### APPLICATION AREAS

Applied by hand for filling joints of coating materials up to 5 mm width as horizontal and vertical at indoors to provide a smooth and esthetic appearance.

### CONSUMPTION

34 m² / 20 kg package
(25x25 cm tile, joint depth 8 mm; joint width 5 mm)

| TS EN 13888 / 03.2010 Normal Cement Based Grouting / Joint Filler Mortar (CG1) | |
|---|---|
| Abrasion Strength | ≤ 2000 mm³ |
| Bending Strength After Dry Storage | ≥ 2,5 N/mm² |
| Bending Strength After Freeze And Thaw | ≥ 2,5 N/mm² |
| Compressive Strength After Dry Storage | ≥ 15,0 N/mm² |
| Compressive Strength After Freeze And Thaw | ≥ 15,0 N/mm² |
| Shrinkage | ≤ 3 mm/m |
| Water Absorption (After 30 min.) | ≤ 5 g |
| Water Absorption (After 240 min.) | ≤ 10 g |
| Maturing Time | 5 min. |
| Workability Time | 45 min. |
| Time Required For Opening To Traffic | minimum 1 day |

**RISK SIGNS**

**H315:** Causes skin irritation.

**H318:** Causes serious eye damage.

**H335:** May cause respiratory irritation.

**SAFETY SIGNS**

**P280:** Wear protective gloves/protective clothing/eye protection/face protection.

**P305+P351+P338:** In case of contact with eyes, rinse carefully with water a few minutes. If avalible and easy, remove contact lenses. Continue rinsing.

**SHELF LIFE**

Unopened original packages can be stored in dry (%60 R.H.) and cool (between +5°C and +25°C) environments for up to 12 months.

## SURFACE PREPARATION

* Application surfaces should be clean, sound and free from dust.
* Coating material should be fixed at least 24 hours before joint filler application.
* Adhesion barrier materials (oil, dirt, dust etc.) should be cleaned the surface and the joints, cement-mortar residues should be scraped.
* Joints should be dampened just before application, free water on the surface should be removed.

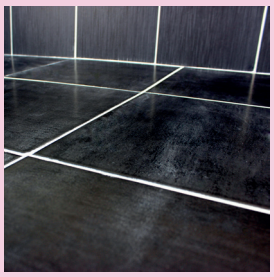
## APPLICATION METHODS

20 kg C-FUGA-ST joint filler mortar is added on 6,5 liters of clean water by sprinkling.

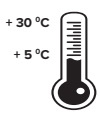
Mortar is blended by a low speed mixer or by a trowel to ensure that there are no lumps in it.
Mortar is rested for 5 minutes to mature and mixed again before the application.

C-FUGA-ST mortar is filled in joints between coating materials by applying pressure with a rubber trowel.
Excess mortar on the surface is removed by rubber trowel.

Depending on the ambient temperature approximately 20 minutes after the application, joints and coating materials are cleaned using a dry and clean sponge.



When joint filler surface starts getting dry, it is smoothed using a damp rag or sponge.
Also coating material surface should be cleaned using a damp rag or sponge after joint filler surface starts drying.
After the time required for opening to traffic is completed, surface becomes ready to use.




Ambient and surface temperature should be between +5°C and +30°C during the application.

If a film layer formed on mortar surface, mortar should not be used. A new mortar should be prepared and applied.


Any additional material (such as lime, cement, gypsum etc.) should not be added in to prepared mortar.

Mortar should not be applied on unsound and loose surfaces.

Surface should be protected from airflows and sudden temperature changes during and after the application.


Mortar should not be applied on frozen, melting or within 24 hours danger of frost surfaces.

If there are lumps in mortar because of mixing, lumps should be taken from mortar, lumped mortar shouldn't be applied.


Hardened-set mortar should not be used by adding water and mixing again.


# C-FUGA-FLEX / CG2W

## JOINT FILLER MORTAR

*silicon-flex*

Improved with additional properties,
cement based,
grouting / joint filler mortar
with reduced water absorption
by it's silicon additive,
with 30 color options
(CG2W)

TS EN 13888 / 03.2010

G16

ISO 9001:2015

### ADVANTAGES

* C-FUGA-FLEX joint filler mortar provides labor and time advantage, by it's easy preparation and application features.
* Provides high adhesion and durability, prevents crack formation.
* Provides using at places where are heavily exposed to water due to it's reduced water absorption feature.
* Provides less consumption at unit area by it's special formula.
* Prevents getting dirty easily and changing color by time.
* Provides smooth and esthetic appearance for joints.
* Provides color options compatible with all kinds of coating materials due to it's wide color range.

### APPLICATION AREAS

Applied by hand for filling joints of coating materials up to 6 mm width as horizontal and vertical at indoors and outdoors to provide a smooth and esthetic appearance.

### CONSUMPTION

34 m² / 20 kg package
(25x25 cm tile, joint depth 8 mm; joint width 5 mm)

| TS EN 13888 / 03.2010<br>Improved Cement Based Grouting / Joint Filler Mortar<br>For Tiles With Reduced Water Absorption (CG2W) | |
|---|---|
| Abrasion Strength | ≤ 2000 mm³ |
| Bending Strength After Dry Storage | ≥ 2,5 N/mm² |
| Bending Strength After Freeze And Thaw | ≥ 2,5 N/mm² |
| Compressive Strength After Dry Storage | ≥ 15,0 N/mm² |
| Compressive Strength After Freeze And Thaw | ≥ 15,0 N/mm² |
| Shrinkage | ≤ 3,0 mm/m |
| Water Absorption (After 30 min.) | ≤ 2 g |
| Water Absorption (After 240 min.) | ≤ 5 g |
| Maturing Time | 5 min. |
| Workability Time | 45 min. |
| Time Required For Opening To Traffic | minimum 1 day |

**RISK SIGNS**

**H315:** Causes skin irritation.

**H318:** Causes serious eye damage.

**H335:** May cause respiratory irritation.

**SAFETY SIGNS**

**P280:** Wear protective gloves/protective clothing/eye protection/face protection.

**P305+P351+P338:** In case of contact with eyes, rinse carefully with water a few minutes. If avalible and easy, remove contact lenses. Continue rinsing.

**SHELF LIFE**

Unopened original packages can be stored in dry (%60 R.H.) and cool (between +5°C and +25°C) environments for up to 12 months.

## SURFACE PREPARATION

* Application surfaces should be clean, sound and free from dust.
* Coating material should be fixed at least 24 hours before joint filler application.
* Adhesion barrier materials (oil, dirt, dust etc.) should be cleaned the surface and the joints, cement-mortar residues should be scraped.
* Joints should be dampened just before application, free water on the surface should be removed.

## APPLICATION METHODS

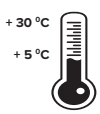
20 kg C-FUGA-FLEX joint filler mortar is added on 6,5 liters of clean water by sprinkling.

Mortar is blended by a low speed mixer or by a trowel to ensure that there are no lumps in it.
Mortar is rested for 5 minutes to mature and mixed again before the application.

C-FUGA-FLEX mortar is filled in joints between coating materials by applying pressure with a rubber trowel.
Excess mortar on the surface is removed by rubber trowel.

Depending on the ambient temperature approximately 20 minutes after the application, joints and coating materials are cleaned a dry and clean sponge.

When joint filler surface starts getting dry, it is smoothed using a damp rag or sponge.
Also coating material surface should be cleaned using a damp rag or sponge after joint filler surface starts drying.
After the time required for opening to traffic is completed, surface becomes ready to use.




Ambient and surface temperature should be between +5°C and +30°C during the application.

If a film layer formed on mortar surface, mortar should not be used. A new mortar should be prepared and applied.


Any additional material (such as lime, cement, gypsum etc.) should not be added in to prepared mortar.

Mortar should not be applied on unsound and loose surfaces.

Surface should be protected from airflows and sudden temperature changes during and after the application.


Mortar should not be applied on frozen, melting or within 24 hours danger of frost surfaces.

If there are lumps in mortar because of mixing, lumps should be taken from mortar, lumped mortar shouldn't be applied.


Hardened-set mortar should not be used by adding water and mixing again.


# C-FUGA-SILFLEX / CG2WA

## JOINT FILLER MORTAR

*silicon-power-flex*

Improved with additional properties,
cement based
grouting / joint filler mortar
with high abrasion strenght and
reduced water absorption
by it's silicon additive,
with 30 color options
(CG2WA)

TS EN 13888 / 03.2010

G16

ISO 9001:2015

### ADVANTAGES

* C-FUGA-SILFLEX joint filler mortar provides labor & time advantage, by it's easy preparation and application features.
* Provides high adhesion and durability, prevents crack formation.
* Provides using at places where are heavily exposed to water due to it's reduced water absorption feature.
* Provides extra resistance to surface abrasion.
* Provides less consumption at unit area by it's special formula.
* Prevents getting dirty easily and changing color by time.
* Provides smooth and esthetic appearance for joints.
* Provides color options compatible with all kinds of coating materials due to it's wide color range.

### APPLICATION AREAS

Applied by hand for filling joints of coating materials up to 10 mm width as horizontal and vertical at indoors and outdoors where are especially exposed to heavy traffic, to provide a smooth and esthetic appearance.

### CONSUMPTION

34 m² / 20 kg package
(25x25 cm tile, joint depth 8 mm; joint width 5 mm)

| TS EN 13888 / 03.2010<br>Improved Cement Based Grouting / Joint Filler Mortar For Tiles With High Abrasion Strength and Reduced Water Absorption (CG2WA) | |
|---|---|
| Abrasion Strength | ≤ 1000 mm³ |
| Bending Strength After Dry Storage | ≥ 2,5 N/mm² |
| Bending Strength After Freeze And Thaw | ≥ 2,5 N/mm² |
| Compressive Strength After Dry Storage | ≥ 15,0 N/mm² |
| Compressive Strength After Freeze And Thaw | ≥ 15,0 N/mm² |
| Shrinkage | ≤ 3,0 mm/m |
| Water Absorption (After 30 min.) | ≤ 2 g |
| Water Absorption (After 240 min.) | ≤ 5 g |
| Maturing Time | 5 min. |
| Workability Time | 45 min. |
| Time Required For Opening To Traffic | minimum 1 day |

**RISK SIGNS**

**H315:** Causes skin irritation.

**H318:** Causes serious eye damage.

**H335:** May cause respiratory irritation.

**SAFETY SIGNS**

**P280:** Wear protective gloves/protective clothing/eye protection/face protection.

**P305+P351+P338:** In case of contact with eyes, rinse carefully with water a few minutes. If avalible and easy, remove contact lenses. Continue rinsing.

**SHELF LIFE**

Unopened original packages can be stored in dry (%60 R.H.) and cool (between +5°C and +25°C) environments for up to 12 months.

## SURFACE PREPARATION

* Application surfaces should be clean, sound and free from dust.
* Coating material should be fixed at least 24 hours before joint filler application.
* Adhesion barrier materials (oil, dirt, dust etc.) should be cleaned from the surface and the joints, cement-mortar residues should be scraped.
* Joints should be dampened just before application, free water on the surface should be removed.

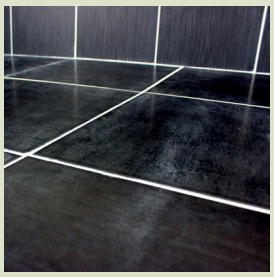
## APPLICATION METHODS

20 kg C-FUGA-SILFLEX joint filler mortar is added on 6,25 liters of clean water by sprinkling.

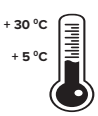
Mortar is blended by a low speed mixer or by a trowel to ensure that there are no lumps in it.
Mortar is rested for 5 minutes to mature and mixed again before the application.

C-FUGA-SILFLEX mortar is filled in joints between coating materials by applying pressure with a rubber trowel.
Excess mortar on the surface is removed by rubber trowel.

Depending on the ambient temperature approximately 20 minutes after the application, joints and coating materials are cleaned using a dry and clean sponge.



When joint filler surface starts getting dry, it is smoothed using a damp rag or sponge.
Also coating material surface should be cleaned using a damp rag or sponge after joint filler surface starts drying.
After the time required for opening to traffic is completed, surface becomes ready to use.




Ambient and surface temperature should be between +5°C and +30°C during the application.

If a film layer formed on mortar surface, mortar should not be used. A new mortar should be prepared and applied.


Any additional material (such as lime, cement, gypsum etc.) should not be added in to prepared mortar.

Mortar should not be applied on unsound and loose surfaces.

Surface should be protected from airflows and sudden temperature changes during and after the application.


Mortar should not be applied on frozen, melting or within 24 hours danger of frost surfaces.

If a film layer formed on mortar surface, mortar should not be used. A new mortar should be prepared and applied.


Hardened-set mortar should not be used by adding water and mixing again.


# C-FUGA-POOL / CG2WA

## JOINT FILLER MORTAR

*antibacterial-silicon-power-flex*

Improved with additional properties,
cement based,
antibacterial,
grouting / joint filler mortar
with high abrasion strenght and reduced water absorption
by it's silicon additive,
with 30 color options
(CG2WA)

TS EN 13888 / 03.2010

G16

ISO 9001:2015

### ADVANTAGES

* C-FUGA-POOL joint filler mortar provides labor & time advantage, by it's easy preparation and application features.
* Provides high adhesion and durability, prevents crack formation.
* Provides using at places where are heavily exposed to water due to it's reduced water absorption feature.
* Provides extra resistance to surface abrasion.
* Prevents formation of bacteria, molds, fungi and algae at joints by it's antibacterial feature.
* Provides less consumption at unit area by it's special formula.
* Prevents getting dirty easily and changing color by time.
* Provides smooth and esthetic appearance for joints.
* Provides color options compatible with all kinds of coating materials due to it's wide color range.

### APPLICATION AREAS

Applied by hand for filling joints of coating materials up to 10 mm width as horizontal and vertical at indoors and outdoors where are especially exposed to water continuously (pools, bathrooms, etc.), to provide a smooth and esthetic appearance.

### CONSUMPTION

34 $m^2$ / 20 kg package
(25x25 cm tile, joint depth 8 mm; joint width 5 mm)

| TS EN 13888 / 03.2010<br>Improved Cement Based Grouting / Joint Filler Mortar For Tiles With High Abrasion Strength and Reduced Water Absorption (CG2WA) | |
|---|---|
| Abrasion Strength | ≤ 1000 $mm^3$ |
| Bending Strength After Dry Storage | ≥ 2,5 $N/mm^2$ |
| Bending Strength After Freeze And Thaw | ≥ 2,5 $N/mm^2$ |
| Compressive Strength After Dry Storage | ≥ 15,0 $N/mm^2$ |
| Compressive Strength After Freeze And Thaw | ≥ 15,0 $N/mm^2$ |
| Shrinkage | ≤ 3,0 mm/m |
| Water Absorption (After 30 min.) | ≤ 2 g |
| Water Absorption (After 240 min.) | ≤ 5 g |
| Maturing Time | 5 min. |
| Workability Time | 45 min. |
| Time Required For Opening To Traffic | minimum 1 day |

| RISK SIGNS |
|---|
| **H315:** Causes skin irritation. |
| **H318:** Causes serious eye damage. |
| **H335:** May cause respiratory irritation. |
| **SAFETY SIGNS** |
| **P280:** Wear protective gloves/protective clothing/eye protection/face protection. |
| **P305+P351+P338:** In case of contact with eyes, rinse carefully with water a few minutes. If avalible and easy, remove contact lenses. Continue rinsing. |
| **SHELF LIFE** |
| Unopened original packages can be stored in dry (%60 R.H.) and cool (between +5°C and +25°C) environments for up to 12 months. |

## SURFACE PREPARATION

* Application surfaces should be clean, sound and free from dust.
* Coating material should be fixed at least 24 hours before joint filler application.
* Adhesion barrier materials (oil, dirt, dust etc.) should be cleaned from the surface and the joints, cement-mortar residues should be scraped.
* Joints should be dampened just before application, free water on the surface should be removed.

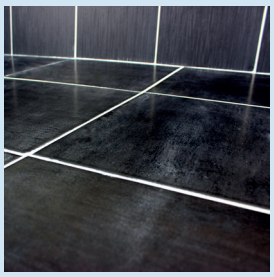
## APPLICATION METHODS

20 kg C-FUGA-POOL joint filler mortar is added on 6,25 liters of clean water by sprinkling.

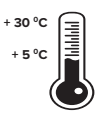
Mortar is blended by a low speed mixer or by a trowel to ensure that there are no lumps in it.
Mortar is rested for 5 minutes to mature and mixed again before the application.

C-FUGA-POOL mortar is filled in joints between coating materials by applying pressure with a rubber trowel.
Excess mortar on the surface is removed by rubber trowel.

Depending on the ambient temperature approximately 20 minutes after the application, joints and coating materials are cleaned using a dry and clean sponge.



When joint filler surface starts getting dry, it is smoothed using a damp rag or sponge.
Also coating material surface should be cleaned using a damp rag or sponge after joint filler surface starts drying.
After the time required for opening to traffic is completed, surface becomes ready to use.




Ambient and surface temperature should be between +5°C and +30°C during the application.

If a film layer formed on mortar surface, mortar should not be used. A new mortar should be prepared and applied.


Any additional material (such as lime, cement, gypsum etc.) should not be added in to prepared mortar.

Mortar should not be applied on unsound and loose surfaces.

Surface should be protected from airflows and sudden temperature changes during and after the application.


Mortar should not be applied on frozen, melting or within 24 hours danger of frost surfaces.

If there are lumps in mortar because of mixing, lumps should be taken from mortar, lumped mortar shouldn't be applied.


Hardened-set mortar should not be used by adding water and mixing again.

# JOINT FILLER COLOR CHART

| 1st GROUP COLORS | 2nd GROUP COLORS | 3rd GROUP COLORS |
|---|---|---|
| WHITE | BROWN | BLACK |
| IVORY | FAWN | ANTHRACITE |
| CREAM | YELLOW | ULTRAMARINE |
| BEIGE | CARAMEL | BLUE |
| ANATOLIAN BEIGE | SALMON | TURQUOISE |
| CAPPADOCIA BEIGE | PINK | RED |
| POWDER | ROSE | ORANGE |
| ICE BLUE | LILAC | CACAO |
| ICE GREEN | WATER BLUE | GREEN |
| LIGHT GREY | GREY | PURPLE |

# JOINT FILLER CONSUMPTION CHART

| Ceramic Size (mm) | Joint Depth (mm) | Joint Width (mm) | Consumption ($g/m^2$) | Consumption ($m^2$/package) |
|---|---|---|---|---|
| 100 x 100 | 6 | 1 | 220 | 90 |
| 100 x 100 | 6 | 2 | 440 | 45 |
| 100 x 100 | 6 | 3 | 660 | 30 |
| 100 x 200 | 6 | 1 | 160 | 120 |
| 100 x 200 | 6 | 2 | 330 | 60 |
| 100 x 200 | 6 | 3 | 500 | 40 |
| 150 x 150 | 6 | 1 | 150 | 135 |
| 150 x 150 | 6 | 2 | 290 | 68 |
| 150 x 150 | 6 | 3 | 440 | 45 |
| 150 x 150 | 6 | 4 | 230 | 87 |
| 200 x 200 | 7 | 1 | 130 | 154 |
| 200 x 200 | 7 | 2 | 260 | 77 |
| 200 x 200 | 7 | 3 | 390 | 51 |
| 200 x 200 | 7 | 4 | 520 | 39 |
| 200 x 200 | 7 | 5 | 650 | 31 |
| 200 x 200 | 7 | 6 | 780 | 26 |
| 200 x 200 | 7 | 7 | 910 | 22 |
| 200 x 250 | 7 | 1 | 120 | 172 |
| 200 x 250 | 7 | 2 | 230 | 86 |
| 200 x 250 | 7 | 3 | 350 | 57 |
| 200 x 250 | 7 | 4 | 460 | 43 |
| 200 x 250 | 7 | 5 | 580 | 34 |
| 200 x 250 | 7 | 6 | 700 | 29 |
| 200 x 250 | 7 | 7 | 810 | 25 |
| 250 x 250 | 8 | 1 | 120 | 169 |
| 250 x 250 | 8 | 2 | 240 | 84 |
| 250 x 250 | 8 | 3 | 350 | 56 |
| 250 x 250 | 8 | 4 | 470 | 42 |
| 250 x 250 | 8 | 5 | 590 | 34 |
| 250 x 250 | 8 | 6 | 710 | 28 |
| 250 x 250 | 8 | 7 | 830 | 24 |
| 250 x 250 | 8 | 8 | 950 | 21 |
| 250 x 300 | 8 | 1 | 110 | 184 |
| 250 x 300 | 8 | 2 | 210 | 92 |
| 250 x 300 | 8 | 3 | 320 | 61 |

| Ceramic Size (mm) | Joint Depth (mm) | Joint Width (mm) | Consumption ($g/m^2$) | Consumption ($m^2$/package) |
|---|---|---|---|---|
| 250 x 300 | 8 | 4 | 430 | 46 |
| 250 x 300 | 8 | 5 | 540 | 37 |
| 250 x 300 | 8 | 6 | 650 | 31 |
| 250 x 300 | 8 | 7 | 760 | 26 |
| 250 x 300 | 8 | 8 | 860 | 23 |
| 300 x 300 | 8 | 1 | 100 | 203 |
| 300 x 300 | 8 | 2 | 200 | 101 |
| 300 x 300 | 8 | 3 | 300 | 68 |
| 300 x 300 | 8 | 4 | 390 | 51 |
| 300 x 300 | 8 | 5 | 490 | 41 |
| 300 x 300 | 8 | 6 | 590 | 34 |
| 300 x 300 | 8 | 7 | 690 | 29 |
| 300 x 300 | 8 | 8 | 790 | 25 |
| 300 x 300 | 8 | 9 | 890 | 23 |
| 300 x 300 | 8 | 10 | 990 | 20 |
| 330 x 330 | 8 | 1 | 90 | 223 |
| 330 x 330 | 8 | 2 | 180 | 111 |
| 330 x 330 | 8 | 3 | 270 | 74 |
| 330 x 330 | 8 | 4 | 360 | 56 |
| 330 x 330 | 8 | 5 | 450 | 45 |
| 330 x 330 | 8 | 6 | 540 | 37 |
| 330 x 330 | 8 | 7 | 630 | 32 |
| 330 x 330 | 8 | 8 | 720 | 28 |
| 330 x 330 | 8 | 9 | 810 | 25 |
| 330 x 330 | 8 | 10 | 900 | 22 |
| 400 x 400 | 9 | 1 | 80 | 240 |
| 400 x 400 | 9 | 2 | 160 | 120 |
| 400 x 400 | 9 | 3 | 250 | 80 |
| 400 x 400 | 9 | 4 | 330 | 60 |
| 400 x 400 | 9 | 5 | 410 | 48 |
| 400 x 400 | 9 | 6 | 500 | 40 |
| 400 x 400 | 9 | 7 | 580 | 34 |
| 400 x 400 | 9 | 8 | 660 | 30 |
| 400 x 400 | 9 | 9 | 750 | 27 |
| 400 x 400 | 9 | 10 | 830 | 24 |

# REPAIR MORTARS

- **G-REPAIR-1200** / **COARSE REPAIR MORTAR** *silicone-fiber-grey*
- **G-REPAIR-800** / **FINE REPAIR MORTAR** *silicone-fiber-grey*
- **G-GROUT-ST** / **GROUT-CASTING-REPAIR MORTAR** *grey*
- **G-GROUT-RAPID** / **GROUT-CASTING-REPAIR MORTAR** *grey-rapid*


# G-REPAIR-1200

## COARSE REPAIR MORTAR

*silicon-fiber-grey*

Grey cement-based,
reinforced with fiber and
chemical additives,
resistant to water and moisture,
non structural,
coarse repair mortar
for indoors and outdoors
with improved adhesion and
compressive strength

TS EN 1504-3 / 04.2008

CE 17

ISO 9001:2015

### ADVANTAGES

* G-REPAIR-1200 coarse repair mortar provides labor and time advantage, by it's easy preparation and application features.
* Provides high adherence, durability and adhesion strength.
* Prevents crack formation with it's fiber and chemical additives.
* Provides less consumption at unit area by it's special formula.
* Provides resistance to water and moisture with it's silicone additive.
* Provides repairing of surfaces until 40 mm depth at one layer.

### APPLICATION AREAS

Applied by hand for unstructured renovation or repairation of concretes, shearwalls, ferroconcretes, breast walls, cement based plasters, screeds, concrete blocks, bricks, pumices, etc. as horizontal and vertical at indoors & outdoors.

### CONSUMPTION

0,4 m² / 25 kg package (Application thickness: 40 mm)

| TS EN 1504-3 / 04.2008<br>R2 Class Cement Based Non-Structural Repair Mortar | |
|---|---|
| Reaction To Fire | Class A1 |
| Dry Bulk Density | 1500 ± 100 g/L |
| Compressive Strength | ≥ 15,0 N/mm² |
| Bonding Strength | ≥ 0,5 N/mm² |
| Restricted Shrinkage - Expansion | ≥ 0,5 N/mm² |
| Maturation Time | 5 min. |
| Workability Time | 40 min. |
| Drying Time | 1 day |

| RISK SIGNS |
|---|
| **H315:** Causes skin irritation. |
| **H319:** Causes serious eye irritation. |
| **H335:** May cause respiratory irritation. |
| **H373:** May cause damage to organs through prolonged or repeated exposure. |
| **SAFETY SIGNS** |
| **P260:** Do not breathe dust/fume/gas/mist/vapours/spray. |
| **P305+P351+P338:** In case of contact with eyes, rinse carefully with water a few minutes. If avalible and easy, remove contact lenses. Continue rinsing. |
| **SHELF LIFE** |
| Unopened original packages can be stored in dry (%60 R.H.) and cool (between +5°C and +25°C) environments for up to 12 months. |

## SURFACE PREPARATION

* Application surfaces should be clean, sound and free from dust.
* Adhesion barrier materials (oil, dirt, dust etc.) should be cleaned from surface, cement-mortar residues should be scraped.
* If needed, surface should be cleaned with water.
* PRIMER-ST primer should be used at least 1 hour before the application to reduce water absorption of the surface in very hot and windy weather.

## APPLICATION METHODS

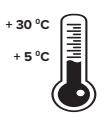
25 kg G-REPAIR-1200 coarse repair mortar is added on 6 liters of clean water by sprinkling.

Mortar is blended by a low speed mixer or by a trowel to ensure that there are no lumps in it.
Mortar is rested for 5 minutes to mature and mixed again before the application.

G-REPAIR-1200 mortar is filled with a trowel by applying pressure into the cracked area at a maximum depth of 40 mm.
If crack is deeper than 40 mm, 2nd layer application should be done 1 day after 1st layer application.

After crack is fully filled with mortar, the application surface is smooted with G-REPAIR-1200 mortar by using trowel.
If application area is wide and deep, glass-fiber mesh should be used to prevent formation of cracks on surface.
Mesh is placed by stretching while mortar surface is still fresh. Mesh should be embeded on plaster as gently pressing by a trowel.

If neeed, surface is smoothed with water by using finishing trowel when mortar surface starts getting dry.
After drying time is completed, surface becomes ready for other applications on it.




Ambient and surface temperature should be between +5°C and +30°C during the application.


Mortar should not be applied on frozen, melting or within 24 hours danger of frost surfaces.


Any additional material (such as lime, cement, gypsum etc.) should not be added in to prepared mortar.

Surface should be protected from airflows and sudden temperature changes during and after the application.


Hardened-set mortar should not be used by adding water and mixing again.

Mortar should not be applied on unsound and loose surfaces.


# G-REPAIR-800

## FINE REPAIR MORTAR

*silicon-fiber-grey*

Grey cement-based,
reinforced with fiber and
chemical additives,
resistant to water and moisture,
non structural,
fine repair mortar
for indoors and outdoors
with improved adhesion and
compressive strength

TS EN 1504-3 / 04.2008

CE 17

ISO 9001:2015

### ADVANTAGES

* G-REPAIR-800 fine repair mortar provides labor and time advantage, by it's easy preparation and application features.
* Provides high adherence, durability and adhesion strength.
* Prevents crack formation with it's fiber and chemical additives.
* Provides less consumption at unit area by it's special formula.
* Provides resistance to water and moisture due to it's silicone additive.
* Provides repairing of surfaces until 20 mm depth at one layer.

### APPLICATION AREAS

Applied by hand for unstructured renovation or repairation of concretes, shearwalls, ferroconcretes, breast walls, cement based plasters, screeds, concrete blocks, bricks, pumices, etc. as horizontal and vertical at indoors & outdoors.

### CONSUMPTION

0,8 m² / 25 kg package (Application thickness: 20 mm)

| TS EN 1504-3 / 04.2008<br>R2 Class Cement Based Non-Structural Repair Mortar | |
|---|---|
| Reaction To Fire | Class A1 |
| Dry Bulk Density | 1500 ± 100 g/L |
| Compressive Strength | ≥ 15,0 N/mm² |
| Bonding Strength | ≥ 0,5 N/mm² |
| Restricted Shrinkage - Expansion | ≥ 0,5 N/mm² |
| Maturation Time | 5 min. |
| Workability Time | 40 min. |
| Drying Time | 1 day |

| RISK SIGNS |
|---|
| **H315:** Causes skin irritation. |
| **H319:** Causes serious eye irritation. |
| **H335:** May cause respiratory irritation. |
| **H373:** May cause damage to organs through prolonged or repeated exposure. |
| **SAFETY SIGNS** |
| **P260:** Do not breathe dust/fume/gas/mist/vapours/spray. |
| **P305+P351+P338:** In case of contact with eyes, rinse carefully with water a few minutes. If avalible and easy, remove contact lenses. Continue rinsing. |
| **SHELF LIFE** |
| Unopened original packages can be stored in dry (%60 R.H.) and cool (between +5°C and +25°C) environments for up to 12 months. |

## SURFACE PREPARATION

* Application surfaces should be clean, sound and free from dust.
* Adhesion barrier materials (oil, dirt, dust etc.) should be cleaned from surface, cement-mortar residues should be scraped.
* If needed, surface should be cleaned with water.
* PRIMER-ST primer should be used at least 1 hour before the application to reduce water absorption of the surface in very hot and windy weather.

## APPLICATION METHODS

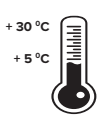
25 kg G-REPAIR-800 fine repair mortar is added on 6 liters of clean water by sprinkling.

Mortar is blended by a low speed mixer or by a trowel to ensure that there are no lumps in it.
Mortar is rested for 5 minutes to mature and mixed again before the application.

G-REPAIR-800 mortar is filled with a trowel by applying pressure into the cracked area at a maximum depth of 20 mm.
If crack is deeper than 20 mm, 2nd layer application should be done 1 day after 1st layer application.

After crack is fully filled with mortar, the application surface is smooted with G-REPAIR-800 mortar by using trowel.
If application area is wide and deep, glass-fiber mesh should be used to prevent formation of cracks on surface.
Mesh is placed by stretching while mortar surface is still fresh. Mesh should be embeded on plaster as gently pressing by a trowel.

If neeed, surface is smoothed with water by using finishing trowel when mortar surface starts getting dry.
After drying time is completed, surface becomes ready for other applications on it.




Ambient and surface temperature should be between +5°C and +30°C during the application.


Mortar should not be applied on frozen, melting or within 24 hours danger of frost surfaces.


Any additional material (such as lime, cement, gypsum etc.) should not be added in to prepared mortar.

Surface should be protected from airflows and sudden temperature changes during and after the application.


Hardened-set mortar should not be used by adding water and mixing again.

Mortar should not be applied on unsound and loose surfaces.


# G-GROUT-ST

## GROUT-CASTING-REPAIR MORTAR

*grey*

Grey cement-based,
reinforced with chemical additives,
resistant to water and moisture,
resistant to freeze and thaw,
non-shrinking and non-expanding
self levelling,
grout-casting-repair mortar
with high compressive strength

TS EN 1504-3 / 04.2008

CE 17

ISO 9001:2015

### ADVANTAGES

* G-GROUT-ST grout-casting-repair mortar provides labor and time advantage, by it's easy preparation and application features.
* Provides high durability and adhesion to concrete and reinforcement.
* Provides high compressive strength after 1 day due to it's fast setting feature.
* Provides resistance to freeze and thaw.
* Provides resistance to water and moisture.
* Prevents formation of shrinkage and expansion cracks.
* Prevents abrasion due to it's high surface hardness feature.
* Prevents segregation of water, provides homogeneous mortar.

### APPLICATION AREAS

Applied by hand for repairing of concrete floors and junction areas of concrete and steel equipment (such as machine foundations, concrete anchors, filling of cavities-gaps-recesses, base plates, support gaps, etc.) where high compressive strength is needed.

### CONSUMPTION

1,25 $m^2$ / 25 kg package (Application thickness: 10 mm)

| TS EN 1504-3 / 04.2008<br>R4 Class Structural Cement Based Repair Mortar | |
|---|---|
| Reaction To Fire | Class A1 |
| Compressive Strength (1st day) | ≥ 20,0 N/$mm^2$ |
| Compressive Strength (28th day) | ≥ 45,0 N/$mm^2$ |
| Bonding Strength | ≥ 2,0 N/$mm^2$ |
| Restricted Shrinkage - Expansion | ≥ 2,0 N/$mm^2$ |
| Maturing Time | - |
| Workability Time | 30 min. |
| Drying Time | 1 day |

| RISK SIGNS |
|---|
| **H315:** Causes skin irritation. |
| **H319:** Causes serious eye irritation. |
| **H335:** May cause respiratory irritation. |
| **H373:** May cause damage to organs through prolonged or repeated exposure. |
| **SAFETY SIGNS** |
| **P260:** Do not breathe dust/fume/gas/mist/vapours/spray. |
| **P305+P351+P338:** In case of contact with eyes, rinse carefully with water a few minutes. If avalible and easy, remove contact lenses. Continue rinsing. |
| **SHELF LIFE** |
| Unopened original packages can be stored in dry (%60 R.H.) and cool (between +5°C and +25°C) environments for up to 12 months. |

## SURFACE PREPARATION

* Application surfaces should be clean and sound.
* Adhesion barrier materials (oil, dirt, dust etc.) on concrete surfaces should be cleaned beforehand, cement-mortar residues should be scraped.
* Adhesion barrier materials (rust, burrs, oil etc.) on metal surfaces should be cleaned. Metal surfaces should be clean and dry.
* PRIMER-ST primer should be applied on to the application surfaces and water absorbent molds at least 1 hour before the application to reduce water absorption.
* Molds should be well fixed, impermeable and clean.
* Molds shoud have enough air gaps for air evacuation during the mortar application.

## APPLICATION METHODS

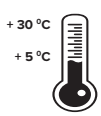
25 kg G-GROUT-ST repair mortar is added on 3,5 liters of clean water by sprinkling.

Mortar is blended by a low speed mixer or by a trowel to ensure that there are no lumps in it.
Mortar should be applied without delay.

G-GROUT-ST mortar should be poured slowly on one side of the mold.
Air bubbles forming should be avoided while pouring the mortar.
Casting on both sides of the mold should never be done.
G-GROUT-ST mortar should be applied as minimum 10 mm and maximum 70 mm thickness.

It is recommended to consume the mortar within 15 minutes for maximum performance.
Since air bubbles will reduce adhesion and compressive strength, it should be ensured that no air bubbles remain during casting.

CURE-AR or CURE-HR concrete curing materials should be applied on all exposed surfaces after mortar surface starts drying.
Molds should be taken off after G-GROUT-ST mortar is fully cured.
After drying time is completed, surface becomes ready to use.




Ambient and surface temperature should be between +5°C and +30°C during the application.


Any additional material (such as lime, cement, gypsum etc.) should not be added in to prepared mortar.

Mortar should not be applied on unsound and loose surfaces.

Surface should be protected from airflows and sudden temperature changes during and after the application.


Mortar should not be applied on frozen, melting or within 24 hours danger of frost surfaces.


Hardened-set mortar should not be used by adding water and mixing again.


# G-GROUT-RAPID

## GROUT-CASTING-REPAIR MORTAR

*grey-rapid*

Grey cement-based,
reinforced with chemical additives,
resistant to water and moisture,
resistant to freeze and thaw,
non-shrinking and non-expanding
self levelling,
fast setting,
grout-casting-repair mortar
with high compressive strength

TS EN 1504-3 / 04.2008

CE 17

ISO 9001:2015

### ADVANTAGES

* G-GROUT-RAPID grout-casting-repair mortar provides labor and time advantage, by it's easy preparation and application features.
* Provides high durability and adhesion to concrete and reinforcement.
* Provides high compressive strength after 1 hours due to it's very fast setting feature.
* Provides resistance to freeze and thaw.
* Provides resistance to water and moisture.
* Prevents formation of shrinkage and expansion cracks.
* Prevents abrasion due to it's high surface hardness feature.
* Prevents segregation of water, provides homogeneous mortar.

### APPLICATION AREAS

Applied by hand for repairing of concrete floors and junction areas of concrete and steel equipment (such as manhole assembly and repair, paving stone and kerb assembly and repair, fixing of the poles, etc.) where high compressive strength and a very short time for opening to traffic is needed.

### CONSUMPTION

1,20 $m^2$ / 25 kg package (Application thickness: 10 mm)

| TS EN 1504-3 / 04.2008<br>R4 Class Structural Cement Based Repair Mortar | |
|---|---|
| Reaction To Fire | Class A1 |
| Compressive Strength (2nd hour) | ≥ 15,0 N/$mm^2$ |
| Compressive Strength (28th day) | ≥ 45,0 N/$mm^2$ |
| Bonding Strength | ≥ 2,0 N/$mm^2$ |
| Restricted Shrinkage - Expansion | ≥ 2,0 N/$mm^2$ |
| Maturing Time | - |
| Workability Time | 10 min. |
| Drying Time | 4 hours |

| RISK SIGNS |
|---|
| **H315:** Causes skin irritation. |
| **H319:** Causes serious eye irritation. |
| **H335:** May cause respiratory irritation. |
| **H373:** May cause damage to organs through prolonged or repeated exposure. |
| **SAFETY SIGNS** |
| **P260:** Do not breathe dust/fume/gas/mist/vapours/spray. |
| **P305+P351+P338:** In case of contact with eyes, rinse carefully with water a few minutes. If avalible and easy, remove contact lenses. Continue rinsing. |
| **SHELF LIFE** |
| Unopened original packages can be stored in dry (%60 R.H.) and cool (between +5°C and +25°C) environments for up to 12 months. |

## SURFACE PREPARATION

* Application surfaces should be clean and sound.
* Adhesion barrier materials (oil, dirt, dust etc.) on concrete surfaces should be cleaned beforehand, cement-mortar residues should be scraped.
* Adhesion barrier materials (rust, burrs, oil etc.) on metal surfaces should be cleaned. Metal surfaces should be clean and dry.
* PRIMER-ST primer should be applied on to the application surfaces and water absorbent molds at least 1 hour before the application to reduce water absorption.
* Molds should be well fixed, impermeable and clean.
* Molds shoud have enough air gaps for air evacuation during the mortar application.

## APPLICATION METHODS

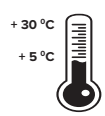
25 kg G-GROUT-RAPID repair mortar is added on 4,0 liters of clean water by sprinkling.

Mortar is blended by a low speed mixer or by a trowel to ensure that there are no lumps in it.
Mortar should be applied without any delay.
As the mortar sets very fast, the application tools should be cleaned immediately after the application.

G-GROUT-RAPID mortar should be poured on one side of the mold.
Air bubbles forming should be avoided while pouring the mortar.
Casting on both sides of the mold should never be done.
G-GROUT-RAPID mortar should be applied as minimum 10 mm and maximum 70 mm thickness.

It is recommended to consume the mortar within 5-8 minutes for maximum performance.
Since air bubbles will reduce adhesion and compressive strength, it should be ensured that no air bubbles remain during casting.

CURE-AR or CURE-HR concrete curing materials should be applied on all exposed surfaces after mortar surface starts drying.
Molds should be taken off after G-GROUT-RAPID mortar is fully cured.
After drying time is completed, surface becomes ready to use.




Ambient and surface temperature should be between +5°C and +30°C during the application.


Any additional material (such as lime, cement, gypsum etc.) should not be added in to prepared mortar.

Mortar should not be applied on unsound and loose surfaces.

Surface should be protected from airflows and sudden temperature changes during and after the application.


Mortar should not be applied on frozen, melting or within 24 hours danger of frost surfaces.


Hardened-set mortar should not be used by adding water and mixing again.

# FLOOR - SURFACE MORTARS

- **G-FLOOR-SELF** / SELF LEVELLING FLOOR SCREED MORTAR
- **C-FLOOR-HARDENER** / SURFACE HARDENER FOR FRESH CONCRETE FLOORS


# G-FLOOR-SELF

## SELF LEVELLING FLOOR SCREED MORTAR

*power-grey*

Grey cement-based, reinforced with chemical additives, non-shrinking and non-expanding self levelling floor screed mortar with high adhesion strength

TS EN 13813 / 01.2004

CE 17

ISO 9001:2015

### ADVANTAGES

* G-FLOOR-SELF self levelling floor screed mortar provides labor and time advantage, by it's easy preparation and application features.
* Provides high durability, adhesion and surface resistance.
* Provides less consumption at unit area due to it's special formula.
* Prevents formation of shrinkage cracks and slumps due to it's special formula.
* Provides levelling of surfaces until 5 mm depth.
* Provides a sound and smooth surface before coating material applications..

### APPLICATION AREAS

Applied by hand to create a high quality, smooth, non-shrinking and non-expanding surface on concrete floors before coating material applicaitons (tile, ceramic, granite, marble, pvc, carpet, parquet, etc).

### CONSUMPTION

1,40 $m^2$ / 25 kg package (Application thickness: 10 mm)

| TS EN 13813 / 01.2004<br>CT-C35-F5 Class Cement Based Floor Levelling Screed Mortar | |
|---|---|
| Compressive Strength | ≥ 35,0 N/$mm^2$ |
| Bending Strength | ≥ 5,0 N/$mm^2$ |
| Abrasion Resistance | ≤ 10,0 $cm^3$ |
| Grain Size (over 1 mm sieve) | % 0 |
| Maturation Time | 5 min. |
| Film Formation Time | 20 min. |
| Time Required For Opening To Traffic | 24 hr. |

| RISK SIGNS |
|---|
| **H315:** Causes skin irritation. |
| **H319:** Causes serious eye irritation. |
| **H335:** May cause respiratory irritation. |
| **H373:** May cause damage to organs through prolonged or repeated exposure. |
| **SAFETY SIGNS** |
| **P260:** Do not breathe dust/fume/gas/mist/vapours/spray. |
| **P305+P351+P338:** In case of contact with eyes, rinse carefully with water a few minutes. If avalible and easy, remove contact lenses. Continue rinsing. |
| **SHELF LIFE** |
| Unopened original packages can be stored in dry (%60 R.H.) and cool (between +5°C and +25°C) environments for up to 12 months. |

## SURFACE PREPARATION

* Application surfaces should be clean, sound and free from dust.
* Adhesion barrier materials (oil, dirt, dust etc.) should be cleaned from surface, cement-mortar residues should be scraped.
* Gaps and cracks on surface should be repaired with G-REPAIR-1200, G-REPAIR-800, G-GROUT-ST or G-GROUT-RAPID repair mortars at least 1 day before the application.
* If needed, surface should be cleaned with water, free water on the surface should be removed.
* PRIMER-ST primer should be used at least 1 hour before the application to reduce water absorption of the surface in very hot and windy weather.

## APPLICATION METHODS

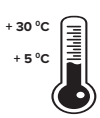
25 kg G-FLOOR-SELF floor levelling mortar is added on 6 liters of clean water by sprinkling.

Mortar is blended by a low speed mixer or by a trowel to ensure that there are no lumps in it.
Mortar is rested for 5 minutes to mature and mixed again before the application.

G-FLOOR-SELF mortar is poured on surface, it can be helped to spread the mortar with a trowel.
Since the mortar can spread very well in the first 20 minutes, it should be applied during this time.

Air bubbles on surface are removed by using a spiked roller for minimum 3 times.
Spiked shoes should be worn to avoid footprints on the mortar during the application.

After time required for opening to traffic is completed, surface becomes ready to use.




Ambient and surface temperature should be between +5°C and +30°C during the application.

Mortar should not be exposed to direct sunlight.


Any additional material (such as lime, cement, gypsum etc.) should not be added in to prepared mortar.

Mortar should not be applied on unsound and loose surfaces.

Surface should be protected from airflows, sudden temperature changes and contact with water during and for 1 day after the applicaiton.


Mortar should not be applied on frozen, melting or within 24 hours danger of frost surfaces.

The heating system must be switched off at least 24 hours before the applications on sub-heated floors.


Hardened-set mortar should not be used by adding water and mixing again.


# C-FLOOR-HARDENER

## SURFACE HARDENER FOR FRESH CONCRETE FLOORS

Grey cement based,
with mineral fillers,
reinforced with chemical additives,
surface hardener for
fresh concrete mortar

TS EN 1504-2 / 03.2005

CE 17

ISO 9001:2015

### ADVANTAGES

* Provides 30% increased concrete surface hardness by its mineral fillers.
* Provides reducing water absorption of the floor.
* Prevents dust formation and damages on ground because of abrasion.
* Provides suitable surface for areas exposed to heavy traffic.

### APPLICATION AREAS

Applied as sprinkling by hand to create a high quality, smooth, concrete floor surface with high abrasion strength for areas that are exposed to heavy traffic (warehouses, malls, factories, concrete roads, etc.).

### CONSUMPTION

5 $m^2$ / 25 kg package (grey)
3 $m^2$ / 25 kg package (other colors)

| TS EN 1504-2 / 03.2005<br>Cement Based Floor Surface Hardener / Principle: 5.1 (C) | |
|---|---|
| Reaction To Fire | Class A1 |
| Principle | 5.1 (C) |
| Water Absorption | ≤ 0,1 kg/$m^2$.$h^{0,5}$ |
| Impact Resistance | Class I |
| Adhesion Strength By Pull-Off (Horizontal with traffic load/Rigid) | ≥ 1,5 N/$mm^2$ |
| Time Required For Opening To Traffic | 24 hr. |

| RISK SIGNS |
|---|
| **H315:** Causes skin irritation. |
| **H319:** Causes serious eye irritation. |
| **H335:** May cause respiratory irritation. |
| **H373:** May cause damage to organs through prolonged or repeated exposure. |
| **SAFETY SIGNS** |
| **P260:** Do not breathe dust/fume/gas/mist/vapours/spray. |
| **P305+P351+P338:** In case of contact with eyes, rinse carefully with water a few minutes. If avalible and easy, remove contact lenses. Continue rinsing. |
| **SHELF LIFE** |
| Unopened original packages can be stored in dry (%60 R.H.) and cool (between +5°C and +25°C) environments for up to 12 months. |

## SURFACE PREPARATION

* Application surfaces should be clean and sound.
* Applied concrete should be minimum C25 class.
* After concrete application and levelling of surface finished, it should be strongly pressed on the surface with the thumb to check if fresh concrete surface is ready for hardener application or not.
* If the fingerprint depth is about 3-5 mm, the surface is ready for hardener application.

## APPLICATION METHODS

25 kg C-FLOOR-HARDENER surface hardener is ready for use, it is applied as powder.
No mortar preparation is required.
C-FLOOR-HARDENER surface hardener is sprinkled uniformly and evenly on the entire concrete surface as 5 kg/m² for grey color and as 8 kg/m² for other colors.

Hardener is matured until it absorb water from concrete surface and get wet.
Surface is smoothed by using a mechanical floating trowel.

When surface is hard enough to walk on it, surface is smoothed by a mechanical floating trowel at high speed for a second time.

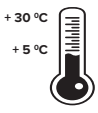
When C-FLOOR-HARDENER surface hardener application is complete and the surface begins to lose its free water (when it becomes dull), CURE-AR or CURE-HR concrete curing material must be applied to the surface to prevent stress cracks and dust formation due to sudden water losses.
CURE-AR or CURE-HR should be shaked before using. It is applied uniformly and evenly to entire surface by a roller, brush or a spraying machine.

## Color Options

- Grey
- Red
- Green
- Blue
- Yellow

## Filler Options

- Silica
- Quartz
- Basalt
- Korund




Ambient and surface temperature should be between +5°C and +30°C during the application.


Any additional material (such as lime, cement, gypsum etc.) should not be added in to prepared mortar.

Surface should be protected from airflows and sudden temperature changes during and after the application.


Mortar should not be applied on frozen, melting or within 24 hours danger of frost surfaces.

# WATER ISOLATION PRODUCTS

- **TWO COMPONENT SEMI-FLEX WATER ISOLATION PRODUCT** HYDRO-G5
- **TWO COMPONENT FLEX WATER ISOLATION PRODUCT** HYDRO-G10
- **TWO COMPONENT FLEX UV RESISTANT WATER ISOLATION PRODUCT** HYDRO-W10
- **ACRYLIC BASED LIQUID WATER ISOLATION PRODUCT** HYDRO-LP


# TWO COMPONENT SEMI-FLEX WATER ISOLATION PRODUCT

## HYDRO-G5

*grey semiflex*

Grey cement and polymer emulsion based,
antibacterial,
highly water repellent,
modified with special additives,
two component,
semi-flexible,
water isolation material
(20 kg powder + 5 kg liquid component)

TS EN 1504-2 : 03.2005

CE

ISO 9001:2015

## PRODUCT ADVANTAGES

* HYDRO-G5 Semi Flex Water Isolation Product provides labor & time advantage due to it's easy preparation and application features.
* Provides high adhesion, durability and water isolation.
* Provides less consumption at unit area by it's special formula.
* Provides an ideal economic waterproofing solution without joints under the coating materials by it's semi-flexible feature.
* Antibacterial, prevents formation of mold-fungus-moss.
* Proper for drinking water tank and pools, conformity certificate is available.

## APPLICATION AREAS

Applied by a roller or brush to provide a high quality, smooth, non-shrink and water proofing surface before coating material application on concrete surfaces which will be used as wet area (kitchen, balcony, bathroom, etc.) as horizontal and vertical at indoors and outdoors.

## UNIT CONSUMPTION

14 $m^2$ / 20 kg + 5 kg set (Application Thickness: 1mm x 1 layers)

7 $m^2$ / 20 kg + 5 kg set (Application Thickness: 1mm x 2 layers)

| TS EN 1504 - 2 / 03.2005<br>Surface Protection Materials / Covering Applications<br>Semi Flex Water Isolation Product | |
|---|---|
| Principle | 2.2 (C) , 8.2 (C) |
| Reaction To Fire | Bs1d0 |
| Adhesion Strength<br>By Pull-Off | ≥ 0,8 N/$mm^2$<br>Flexible Systems-Non traffic load |
| Capilary Water Absorption and Water Permeability | ≤ 0,1 kg/$m^2$.$h^{0,5}$ |
| Water Vapor Permeability | Class I |
| Pressurized Water Resistance | 2 bar pozitive (DIN 1048) |
| Workability Time | 30 min. |
| Time Required For Upper Application | 3 days |

| RISK SIGNS |
|---|
| **H315:** It causes skin irritation. |
| **H319:** It causes serious eye irritation. |
| **H335:** It may cause respiratory irritation. |
| **H373:** It may cause damage to organs through prolonged or repeated exposure. |
| **SAFETY SIGNS** |
| **P260:** Do not breathe dust / fume / gas / mist / vapours / spray. |
| **P305+P351+P338:** In case of contact with eyes, rinse carefully with water a few minutes. If avalible and easy, remove contact lenses. Continue rinsing. |
| **SHELF LIFE** |
| Unopened original packages can be stored in dry (%60 R.H.) and cool (between +5°C and +25°C) environments up to 12 months. |

## PREPARING SURFACE

* Application surface should be clean, sound and free from dust.
* Adhesion barrier materials (oil, dirt, dust, etc.) should be cleaned, cement-mortar residues should be scraped.
* Gaps and cracks on surface should be repaired with G-REPAIR-1200 or G-REPAIR-800 repair mortars at least 1 day before the application.
* If needed, surface should be cleaned with water, excess water should be removed.
* PRIMER-ST primer should be used at least 1 hour before application to reduce water absorption of the surface and to provide better adhesion.

## APPLICATION METHODS

20 kg HYDRO-G5 powder component is added on 5 kg HYDRO-L5 liquid component by sprinkling.

Mortar is blended by a low speed mixer to ensure that there are no lumps in it.
Mortar is rested for 3 minutes to mature and mixed again before application.

Prepared HYDRO-G5 mortar is applied to the corners and joints with a small brush as a thin layer.
Waterproofing tape is placed to the corners and joints, then it is embeded in the fresh mortar by gently pressing by the brush.

After taping is finished, HYDRO-G5 mortar is applied as 1 mm on the surface in one direction brush strokes as 1st layer by a roller or brush.
If application area is bigger than 5 $m^2$, flex THERMMESH-A1 glass-fiber mesh is placed on the mortar while 1st layer mortar surface is still fresh.
Mesh is embeded on fresh mortar by gently pressing with a brush or roller.
To prevent crack formation, glass-fiber mesh should be placed as endpoints min. 10 cm overlapped.
To prevent crack formation at corners and joints, mesh should be applied with a 1 cm overlay on the edge of the waterproofing tape.

After 6 hours from 1st layer application (before surface completely dry), prepared HYDRO-G5 mortar is applied on the entire surface in reverse direction brush strokes with a 1 mm thickness as 2nd layer.
If 1st layer surface is dry, it should be humidified before 2nd layer application.
During the application, make sure that there is no space, hole or area without mortar at surface. Make sure that every mortar layer covers the application surface completely.
After setting time is completed, surface becomes ready for other applications on it.
A coating material (ceramic, etc.) should be applied on HYDRO-G5 surface by using minimum C2 type tile adhesive, product surface shouldn't be exposed to long term external effects.

Ambient and surface temperature should be between +5ºC and +30ºC during the application.


Surface should be protected from direct sunlight, extreme wind and rain during and after the application.

Mortar should not be applied on frozen, melting or within 24 hours danger of frost surfaces.

Any additional material (water, lime, cement, gypsum etc.) should not be added in to prepared mortar.

Hardened-set mortar should not be used by adding HYDRO-L5 or water and mixing again.


HYDRO-G5 mortar should not be applied on unsound, loose and problematic surfaces.


# TWO COMPONENT FLEX WATER ISOLATION PRODUCT

## HYDRO-G10

*grey flex*

Grey cement and polymer emulsion based,
antibacterial,
highly water repellent,
modified with special additives,
two component,
flexible,
water isolation material
(20 kg powder + 10 kg liquid component)

TS EN 14891 : 04.2017

CE

ISO 9001:2015

## PRODUCT ADVANTAGES

* HYDRO-G10 Flex Water Isolation Product provides labor & time advantage due to it's easy preparation and application features.
* Provides high adhesion, durability and water isolation.
* Provides less consumption at unit area by it's special formula.
* Provides an ideal economic waterproofing solution without joints under the coating materials by it's flexible feature.
* Antibacterial, prevents formation of mold-fungus-moss.
* Resistant to freeze & thaw circle, chlorinated water and lime water, protects concrete surface against carbonation and chloride effects.
* Proper for drinking water tank and pools, conformity certificate is available.

## APPLICATION AREAS

Applied by a roller or brush to provide a high quality, smooth, non-shrink, flexible and water proofing surface before coating material applications on concrete surfaces which will be used as wet area (spa, bathroom, kitchen, balcony, terrace, pool, water tank, etc.) and also for water insulation of foundation walls, retaining walls, basements, water channels, etc. as horizontal and vertical at indoors and outdoors.

## UNIT CONSUMPTION

18 $m^2$ / 20 kg + 10 kg set (Applicaition Thickness: 1mm x 1 layers)

9 $m^2$ / 20 kg + 10 kg set (Applicaition Thickness: 1mm x 2 layers)

| TS EN 14891 / 04.2017 Applied As Liquid, Normal Cement Based Water Isolation Product, With Crack Covering Feature and Resistant To Chlorinated and Lime Water (Type: CM, Class: P) | |
|---|---|
| Initial Adhesion Strength | ≥ 0,5 N/mm² |
| Adhesion Strength After Heat Ageing | ≥ 0,5 N/mm² |
| Adhesion Strength After Freeze And Thaw | ≥ 0,5 N/mm² |
| Adhesion Strength After Contact With Water | ≥ 0,5 N/mm² |
| Adhesion Strength After Contact With Lime Water | ≥ 0,5 N/mm² |
| Adhesion Strength After Contact With Chlorinated Water | ≥ 0,5 N/mm² |
| Water Impermeability | ≤ 20 g mass increase |
| Crack Bridging Ability | ≥ 0,75 mm (+20°C) |
| Workability Time | 30 min. |
| Time Required For Upper Application | 3 days |

| RISK SIGNS |
|---|
| **H315:** It causes skin irritation. |
| **H319:** It causes serious eye irritation. |
| **H335:** It may cause respiratory irritation. |
| **H373:** It may cause damage to organs through prolonged or repeated exposure. |
| **SAFETY SIGNS** |
| **P260:** Do not breathe dust / fume / gas / mist / vapours / spray. |
| **P305+P351+P338:** In case of contact with eyes, rinse carefully with water a few minutes. If avalible and easy, remove contact lenses. Continue rinsing. |
| **SHELF LIFE** |
| Unopened original packages can be stored in dry (%60 R.H.) and cool (between +5°C and +25°C) environments up to 12 months. |

## PREPARING SURFACE

* Application surface should be clean, sound and free from dust.
* Adhesion barrier materials (oil, dirt, dust, etc.) should be cleaned, cement-mortar residues should be scraped.
* Gaps and cracks on surface should be repaired with G-REPAIR-1200 or G-REPAIR-800 repair mortars at least 1 day before the application.
* If needed, surface should be cleaned with water, excess water should be removed.
* PRIMER-ST primer should be used at least 1 hour before the application to reduce water absorption of the surface and to provide better adhesion.

## APPLICATION METHODS

20 kg HYDRO-G10 powder component is added on 10 kg HYDRO-L10 liquid component by sprinkling.

Mortar is blended by a low speed mixer to ensure that there are no lumps in it.

Mortar is rested for 3 minutes to mature and mixed again before application.

Prepared HYDRO-G10 mortar is applied to the corners and joints with a small brush as a thin layer.

Waterproofing tape is placed to the corners and joints, then it is embeded in the fresh mortar by gently pressing by the brush.

After taping is finished, HYDRO-G10 mortar is applied as 1 mm on the surface in one direction brush strokes as 1st layer by a roller or brush.
If application area is bigger than 5 $m^2$, flex THERMMESH-A1 glass-fiber mesh is placed on the mortar while 1st layer mortar surface is still fresh.
Mesh is embeded on fresh mortar by gently pressing with a brush or roller.
To prevent crack formation, glass-fiber mesh should be placed as endpoints min. 10 cm overlapped.
To prevent crack formation at corners and joints, mesh should be applied with a 1 cm overlay on the edge of the waterproofing tape.

After 6 hours from 1st layer application (before surface completely dry), prepared HYDRO-G10 mortar is applied on the entire surface in reverse direction brush strokes with a 1 mm thickness as 2nd layer.
If 1st layer surface is dry, it should be humidified before 2nd layer application.
During the application, make sure that there is no space, hole or area without mortar at surface. Make sure that every mortar layer covers the application surface completely.
After setting time is completed, surface becomes ready for other applications on it.
At lightly loaded areas there may not need to apply a coating material on HYDRO-G10.
However, in all applications, protecting the product surface from external environmental effects with a coating material application will extend the life of water isolation.
If a caoting material will be applied on HYDRO-G10, minimum C2 type tile adhesive should be used for fixing.
If a caoting material will not be applied on HYDRO-G10, to improve the surface strength at least 3 layers application is recommended.

Ambient and surface temperature should be between +5ºC and +30ºC during the application.


Surface should be protected from direct sunlight, extreme wind and rain during and after the application.

Mortar should not be applied on frozen, melting or within 24 hours danger of frost surfaces.

Any additional material (water, lime, cement, gypsum etc.) should not be added in to prepared mortar.

Hardened-set mortar should not be used by adding HYDRO-L10 or water and mixing again.


HYDRO-G10 mortar should not be applied on unsound, loose and problematic surfaces.


# TWO COMPONENT FLEX UV RESISTANT WATER ISOLATION PRODUCT

## HYDRO-W10

*white flex*

White cement and polymer emulsion based,
antibacterial,
highly water repellent,
modified with special additives,
two component,
UV resistant,
flexible,
water isolation material
(20 kg powder + 10 kg liquid component)

TS EN 14891 : 04.2017

CE

ISO 9001:2015

## PRODUCT ADVANTAGES

* HYDRO-W10 UV Resistant Flex Water Isolation Product provides labor & time advantage due to it's easy preparation and application features.
* Provides high adhesion, UV resistance and water isolation.
* Provides less consumption at unit area by it's special formula.
* Provides an ideal economic waterproofing solution without joints under the coating materials by it's flexible feature.
* Antibacterial, prevents formation of mold-fungus-moss.
* Resistant to freeze & thaw circle, chlorinated water and lime water, protects concrete surface against carbonation and chloride effects.
* Proper for drinking water tank and pools, conformity certificate is available.

## APPLICATION AREAS

Applied by a roller or brush to provide a high quality, smooth, non-shrink, flexible, UV resistant, water proofing surface before coating material applications on concrete surfaces which will be used as wet area (spa, bathroom, kitchen, balcony, terrace, pool, water tank, etc.) and also for water insulation of foundation walls, retaining walls, basements, water channels, etc. as horizontal and vertical at indoors and outdoors.

## UNIT CONSUMPTION

18 $m^2$ / 20 kg + 10 kg set (Application Thickness: 1mm x 1 layers)

9 $m^2$ / 20 kg + 10 kg set (Application Thickness: 1mm x 2 layers)

| TS EN 14891 / 04.2017 Applied As Liquid, Normal Cement Based Water Isolation Product, With Crack Covering Feature and Resistant To Chlorinated and Lime Water (Type: CM, Class: P) | |
|---|---|
| Initial Adhesion Strength | ≥ 0,5 N/mm² |
| Adhesion Strength After Heat Ageing | ≥ 0,5 N/mm² |
| Adhesion Strength After Freeze And Thaw | ≥ 0,5 N/mm² |
| Adhesion Strength After Contact With Water | ≥ 0,5 N/mm² |
| Adhesion Strength After Contact With Lime Water | ≥ 0,5 N/mm² |
| Adhesion Strength After Contact With Chlorinated Water | ≥ 0,5 N/mm² |
| Water Impermeability | ≤ 20 g mass increase |
| Crack Bridging Ability | ≥ 0,75 mm (+20°C) |
| Workability Time | 30 min. |
| Time Required For Upper Application | 3 days |

| RISK SIGNS |
|---|
| **H315:** It causes skin irritation. |
| **H319:** It causes serious eye irritation. |
| **H335:** It may cause respiratory irritation. |
| **H373:** It may cause damage to organs through prolonged or repeated exposure. |
| **SAFETY SIGNS** |
| **P260:** Do not breathe dust / fume / gas / mist / vapours / spray. |
| **P305+P351+P338:** In case of contact with eyes, rinse carefully with water a few minutes. If avalible and easy, remove contact lenses. Continue rinsing. |
| **SHELF LIFE** |
| Unopened original packages can be stored in dry (%60 R.H.) and cool (between +5°C and +25°C) environments up to 12 months. |

## PREPARING SURFACE

* Application surface should be clean, sound and free from dust.
* Adhesion barrier materials (oil, dirt, dust, etc.) should be cleaned, cement-mortar residues should be scraped.
* Gaps and cracks on surface should be repaired with G-REPAIR-1200 or G-REPAIR-800 repair mortars at least 1 day before the application.
* If needed, surface should be cleaned with water, excess water should be removed.
* PRIMER-ST primer should be used at least 1 hour before the application to reduce water absorption of the surface and to provide better adhesion.

## APPLICATION METHODS

20 kg HYDRO-W10 powder comp. is added on 10 kg HYDRO-UV10 liquid component by sprinkling.

Blended by a low speed mixer to that no lumps in it.

Mortar is rested for 3 minutes to mature and mixed again before application.

Mortar is blended by a low speed mixer to ensure that there are no lumps in it.

Waterproofing tape is placed and embeded on the fresh 1st layer mortar at corners and joints by gently pressing with a small brush.

After taping is finished, HYDRO-W10 mortar is applied as 1 mm on the surface in one direction brush strokes as 1st layer by a roller or brush.
If application area is bigger than 5 $m^2$, flex THERMMESH-A1 glass-fiber mesh is placed on the mortar while 1st layer mortar surface is still fresh.
Mesh is embeded on fresh mortar by gently pressing with a brush or roller.
To prevent crack formation, glass-fiber mesh should be placed as endpoints min. 10 cm overlapped.
To prevent crack formation at corners and joints, mesh should be applied with a 1 cm overlay on the edge of the waterproofing tape.

After 6 hours from 1st layer application (before surface completely dry), prepared HYDRO-W10 mortar is applied on the entire surface in reverse direction brush strokes with a 1 mm thickness as 2nd layer.
If 1st layer surface is dry, it should be humidified before 2nd layer application.
During the application, make sure that there is no space, hole or area without mortar at surface. Make sure that every mortar layer covers the application surface completely.
After setting time is completed, surface becomes ready for other applications on it.
At lightly loaded areas there may not need to apply a coating material on HYDRO-W10.
However, in all applications, protecting the product surface from external environmental effects with a coating material application will extend the life of water isolation.
If a caoting material will be applied on HYDRO-W10, minimum C2 type tile adhesive should be used for fixing.
If a caoting material will not be applied on HYDRO-W10, to improve the surface strength at least 3 layers application is recommended.

Ambient and surface temperature should be between +5°C and +30°C during the application.


Surface should be protected from direct sunlight, extreme wind and rain during and after the application.

Mortar should not be applied on frozen, melting or within 24 hours danger of frost surfaces.

Any additional material (water, lime, cement, gypsum etc.) should not be added in to prepared mortar.

Hardened-set mortar should not be used by adding HYDRO-UV10 or water and mixing again.


HYDRO-W10 mortar should not be applied on unsound, loose and problematic surfaces.


# ACRYLIC BASED LIQUID WATER ISOLATION PRODUCT
## HYDRO-LP

Elastomeric resin based, flexible, solvent-free, one component-liquid waterproofing material providing high water impermeability on cementitious surfaces (in 15 kg and 5 kg buckets)

TS EN 14891 : 04.2017

ISO 9001:2015

## PRODUCT ADVANTAGES

* HYDRO-LP Liquid Water Isolation Product provides labor & time advantage due to it's easy preparation and application features.
* Provides high adhesion, durability and water isolation.
* Provides less consumption at unit area by it's special formula.
* Prevents formation of shrinkage cracks by it's flexible feature.
* Provides an economic and ideal waterproofing solution without shrinkage and joints on cementious surfaces.

## APPLICATION AREAS

Applied by a roller or brush to provide a high quality, smooth, non-shrink, flexible and water proofing surface on cementious surfaces (concrete, plaster, screed, etc.) which will be used as wet area (spa, bathroom, kitchen, balcony, terrace, pool, etc.).

## UNIT CONSUMPTION

10 $m^2$ / 15 kg package (Application Thickness: 1mm x 1 layer application)

5 $m^2$ / 15 kg package (Application Thickness: 1mm x 2 layers application)

| TS EN 14891 / 04.2017 Applied As Liquid, Normal Dispersion Based Water Isolation Product, With Crack Covering Feature at Low Temperatures (-5°C) and Resistant To Chlorinated Water (Type: DM, Class: 01P) | |
|---|---|
| Initial Adhesion Strength | ≥ 0,5 N/mm² |
| Adhesion Strength After Heat Ageing | ≥ 0,5 N/mm² |
| Adhesion Strength After Freeze And Thaw | ≥ 0,5 N/mm² |
| Adhesion Strength After Contact With Water | ≥ 0,5 N/mm² |
| Adhesion Strength After Contact With Lime Water | ≥ 0,5 N/mm² |
| Adhesion Strength After Contact With Chlorinated Water | ≥ 0,5 N/mm² |
| Water Impermeability | ≤ 20 g mass increase |
| Crack Bridging Ability At Low Temperature | ≥ 0,75 mm (-5°C) |
| Time Required For Upper Application | 7 days |

**RISK SIGNS**

**H335:** It may cause respiratory irritation.

**SAFETY SIGNS**

**P305+P351+P338:** In case of contact with eyes, rinse carefully with water a few minutes. If avalible and easy, remove contact lenses. Continue rinsing.

**SHELF LIFE**

Unopened original packages can be stored in dry (%60 R.H.) and cool (between +5°C & +25°C) conditions up to 12 months.

## PREPARING SURFACE

* Application surface should be clean, sound and free from dust.
* Adhesion barrier materials (oil, dirt, dust, etc.) should be cleaned, cement-mortar residues should be scraped.
* Gaps & cracks on surface should be repaired with G-REPAIR-1200 or G-REPAIR-800 repair mortars at least 1 day before the application.
* If needed, surface should be cleaned with water, excess water should be removed.

## APPLICATION METHODS

PRIMER-ST primer should be used at least 1 hour before the application to reduce water absorption of the surface and to provide better adhesion.
HYDRO-LP is ready for use, there is no need a preparation for the product.

It is blended by a low speed mixer or trowel until becomes homogeneous.
HYDRO-LP is is firstly applied to the corners and joints with a small brush as a thin layer.
Waterproofing tape is placed and embeded on the fresh HYDRO-LP surface at corners and joints by gently pressing with the small brush.

After taping is finished, HYDRO-LP is applied on the entire surface in one direction strokes with a 1 mm thickness as 1st layer by a roller or brush.
If application needs higher mechanical strength, flex THERMMESH-A1 mesh is placed on the fresh 1st layer surface.
Mesh is embeded on fresh surface by gently pressing with brush or roller.
To prevent crack formation at mesh junction point, mesh should be placed as endpoints min.imum 10 cm overlapped.
To prevent crack formation at corners, mesh should be applied with 1 cm overlay on the edge of waterproofing tape.

After approx. 6 hours from 1st layer application (when surface is completely dry), HYDRO-LP is applied on the entire surface in reverse direction brush strokes with a 1 mm thickness as 2nd layer.
During the application, make sure that there is no space, hole or area without mortar at surface.
Make sure that every HYDRO-LP layer covers the application surface completely.
After setting time is completed, surface becomes ready for other applications on it.

At non-navigable areas there may not need to apply a coating material on HYDRO-LP. However, in all applications, protecting the product surface from prolonged external environmental effects with a coating material application will extend the life of water isolation.
If a caoting material will be applied on HYDRO-LP, minimum C2 type tile adhesive should be used for fixing.
HYDRO-LP should be applied at least 2 layers. It is recommended to apply 3 layers in areas requiring high protection.


Ambient and surface temperature should be between +5°C and +30°C during the application.

Surface should be protected from direct sunlight, extreme wind and rain during and after the application.


Mortar should not be applied on frozen, melting or within 24 hours danger of frost surfaces.


Any additional material (water, lime, cement, gypsum etc.) should not be added in to prepared mortar.

Do not use products which is non-homogenized when mixed, products with a dry film layer on surface or expired.

HYDRO-LP should not be applied on unsound, loose and problematic surfaces.

# PRIMER PRODUCTS

- **PRIMER FOR PLASTERS** PRIMER-PLAST
- **PRIMER FOR GENERAL PURPOSE** PRIMER-ST
- **PRIMER FOR GLASSY SURFACES** PRIMER-TILE


# PRIMER FOR PLASTERS
## PRIMER-PLAST

Acrylic emulsion based, solventfree, concentrated, plaster primer with mineral fillers, that reduces water absorption of the cementious surfaces and increases adhesion strength of the smooth cementious surfaces at indoors and outdoors (in 12 kg and 4 kg plastic buckets)

TS 13744 : 03.2017

### PRODUCT ADVANTAGES

* Economic, provides a low water absorbent, non-dusting, ideal surface with increased adherence for upper plaster applications.
* Provides high durability and adhesion strength.
* Concentrated, larger areas can be primed with fewer products due to special dilutable formula.

| TS 13744 / 03.2017<br>Adherence Increasing Primer With Mineral Fillers | |
|---|---|
| Color | Green |
| Density | 1500 ± 50 g/L |
| Solid Particle Content | %55 - %75 |
| Initial Adhesion Strength | > 1,0 N/mm² |
| Application Temperature | +5°C / +35°C |
| Drying Time | 8 hours |
| Unit Consumption | 0,24 kg/m² (50 m² / 12 kg bucket) |

**RISK SIGNS**

**H335:** It may cause respiratory irritation.

**SAFETY SIGNS**

**P305+P351+P338:** In case of contact with eyes, rinse carefully with water a few minutes. If avalible and easy, remove contact lenses. Continue rinsing.

**SHELF LIFE**

Unopened original packages can be stored in dry (%60 R.H.) and cool (between +5°C and +25°C) environments up to 12 months.

### APPLICATION AREAS

Applied by a roller as vertical and horizontal on high water absorbent and smooth surfaces (concrete, painted or plastered surfaces, etc.) to provide the adherence and to reduce water absorption of the surface at indoors and outdoors.

### PREPARING SURFACE

Application surface should be clean, sound and free from dust. Adhesion barrier materials (oil, dust, dirt, etc.) should be cleaned, cement-mortar residues should be scraped. Gaps & cracks on surface should be repaired with G-REPAIR-1200 or G-REPAIR-800 repair mortars at least 1 day before the application, surface should be smooth. If the application surface is wet or damp, the application should not be done. Be sure that the surface is completely dry before starting to the PRIMER-PLAST application.

### APPLICATION METHODS

Max. 3 liters of clean water is added on 12 kg PRIMER-PLAST.
Homogenized by mixing with a low speed mixer.
Prepared PRIMER-PLAST primer is applied uniformly and evenly to the entire surface with a texture roller as a thin one layer.

PRIMER-PLAST is intermittently mixed to ensure homogeneity during the application.
After drying time is completed, surface will be ready for upper applications on it.
Upper application should be done within 7 days after PRIMER-PLAST applied and the surface shouldn't be exposed to external effects for a long time.

+35 °C
+5 °C
Ambient and surface temperature should be between +5°C and +35°C during the application.

Surface should be protected from direct sunlight, extreme wind and rain during and after the application.

24 hours
It should not be applied on frozen, melting or within 24 hours danger of frost surfaces.

Do not use products which is non-homogenized when mixed, products with a dry film layer on surface or expired.

Water
Water more than 3 liters or any other materials should not be added in it.

It should not be applied on unsound, problematic and loose surfaces.


# PRIMER FOR GENERAL PURPOSE
## PRIMER-ST

Acrylic emulsion based,
solvent-free,
general purpose primer
to reduce water absorption
and to increase adhesion of
the application surfaces
(in 30 kg, 10 kg and 5 kg plastic bins)

TS 13744 : 03.2017

G18

ISO 9001:2015

### PRODUCT ADVANTAGES

* Economic, provides a low water absorbent, non-dusting, ideal surface with increased adherence for upper applications on it.
* Ready to use, fast and easy to apply.

| TS 13744 / 03.2017<br>Adherence Increasing Primer Without Mineral Fillers | |
|---|---|
| Color | White |
| Density | 1050 ± 50 g/L |
| Solid Particle Content | %8 - %30 |
| Initial Adhesion Strength | > 1,0 N/mm² |
| pH | 6 - 9 |
| Application Temperature | +5°C / +35°C |
| Drying Time | 8 hours |
| Unit Consumption | 0,25 kg/m² (120 m² / 30 kg bin) |

**RISK SIGNS**

**H335:** It may cause respiratory irritation.

**SEFETY SIGNS**

**P305+P351+P338:** In case of contact with eyes, rinse carefully with water a few minutes. If avalible and easy, remove contact lenses. Continue rinsing.

**SHELF LIFE**

Unopened original packages can be stored in dry (%60 R.H.) and cool (between +5°C and +25°C) environments up to 12 months.

### APPLICATION AREAS

Applied by a roller or a brush, to provide the adherence feature and to reduce water absorption of the high water absorbent surfaces (brick, concrete, bims, briquette, etc.) before applications of cementious plaster, screed, adhesive, etc. as horizontal and vertical, at indoors and outdoors.

### PREPARING SURFACE

Applicaiton surface should be clean, sound and free from dust. Adhesion barrier materials (oil, dirt, dust, etc.) should be cleaned, gypsum-cement-mortar residues should be scraped. Gaps and cracks on surface should be repaired at least 1 day before application with G-REPAIR-1200 or G-REPAIR-800 repair mortars, surface should be smooth. If the surface is wet or damp, application shouldn't be done. Be sure that the surface is completely dry before starting application.

### APPLICATION METHODS

PRIMER-ST primer for general purpose is ready for use.
Primer is poured into a clean and wide bucket.
PRIMER-ST primer for general purpose is applied uniformly to entire surface with a roller or brush as a thin layer.

After drying time is completed, surface will be ready for the upper applications on it.
Upper application should be done in 7 days after application, surface shouldn't be exposed to long term external effects.

+35 °C
+5 °C
Ambient and surface temperature should be between +5°C and +35°C during the application.

Surface should be protected from direct sunlight, extreme wind and rain during and after the application.

24 hours
It should not be applied on frozen, melting or within 24 hours danger of frost surfaces.

Do not use products which is non-homogenized when mixed, products with a dry film layer on surface or expired.

Water
It is ready to use, any water or material should not be added in it.

It should not be applied on unsound, problematic and loose surfaces.


# PRIMER FOR GLASSY SURFACES
## PRIMER-TILE

Acrylic emulsion based,
solvent-free,
surface primer with mineral fillers,
to prepare glassy surfaces
(ceramic, mosaic, wood, etc.)
for coating material
fixing applications on them
(in 3 kg and 1 kg plastic buckets)

TS 13744 : 03.2017

ISO 9001:2015

### PRODUCT ADVANTAGES

* Increases the adherence of the glassy surfaces, provides high adhesion & durability.
* Economic, prevents the labor and time loss necessary to break the existing surface.
* Ready to use, fast and easy to apply.

| TS 13744 / 03.2017<br>Adherence Increasing Primer With Mineral Fillers | |
|---|---|
| Color | Pink |
| Density | 1450 ± 50 g/L |
| Solid Particle Content | %55 - %75 |
| Initial Adhesion Strength | > 1,0 N/mm² |
| pH | 7 - 9 |
| Application Temperature | +10°C / +35° |
| Drying Time | 12 hours |
| Unit Consumption | 0,15 kg/m² (20 m² / 3 kg bucket)<br>One layer application |

**RISK SIGNS**

**H335:** It may cause respiratory irritation.

**SEFETY SIGNS**

**P305+P351+P338:** In case of contact with eyes, rinse carefully with water a few minutes. If avalible and easy, remove contact lenses. Continue rinsing.

**SHELF LIFE**

Unopened original packages can be stored in dry (%60 R.H.) and cool (between +5°C and +25°C) environments up to 12 months.

### APPLICATION AREAS

Applied by a roller or a brush, to provide adherence of the glassy surfaces (ceramic, mosaic, wood, etc.) before coating material applications as horizontal and vertical at indoors and outdoors.

### PREPARING SURFACE

Applicaiton surface should be clean, sound and free from dust. Adhesion barrier materials (oil, dust, etc.) should be cleaned, cement-gypsum-mortar residues should be scraped. If possible, surface should be cleaned with water and left to dry. Residues (varnish, wax, etc.) on wooden surfaces should be scraped and if possible surface should be fully finished and cleaned by scraping machine. Gaps and cracks on the surface should be filled and repaired by a suitable product, surface should be smooth. Ensure that the surface is dust-free and dry before application.

### APPLICATION METHODS

PRIMER-TILE adhesion enhancing primer is ready for use. Should be mixed until it becomes homogenous before starting to use.
PRIMER-TILE adhesion enhancing primer is applied uniformly and evenly to the entire surface with a roller or a brush as a thin one layer.

PRIMER-TILE is intermittently mixed if necessary to ensure homogeneity during the application.
After drying time is completed, surface will be ready for upper coating material applications on it.
Coating material application should be done within 7 days after PRIMER-TILE applied and surface shouldn't be exposed to external effects for a long time.

+35°C +10°C Ambient and surface temperature should be between +10°C and +35°C during the application.

Surface should be protected from direct sunlight, extreme wind and rain during and after the application.

24 hours It should not be applied on frozen, melting or within 24 hours danger of frost surfaces.

Do not use products which is non-homogenized when mixed, products with a dry film layer on surface or expired.

Water It is ready to use, any water or material should not be added in it.

It should not be applied on unsound, problematic and loose surfaces.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DRO-LP

# CONCRETE CURING MATERIALS

- **ACRYLIC RESIN BASED CONCRETE CURING MATERIAL** CURE-AR
- **HYDROCARBON RESIN BASED CONCRETE CURING MATERIAL** CURE-HR


# ACRYLIC RESIN BASED CONCRETE CURING MATERIAL

## CURE-AR

Acrylic resin & water based liquid curing material to prevent water loss of surface by creating a film layer, after concrete, screed or surface hardener application (in 30 kg plastic bins)

TS EN 1504-2 : 2005

CE

ISO 9001:2015

## PRODUCT ADVANTAGES

* CURE-AR provides labor and time advantage, by it's easy application feature.
* Increases the surface hardness and prevents dust formation.
* Protects surface against effects of external environment at low humidity, high evaporation and high airflow conditions.
* Reduces possibility of shrinkage formation by high curing.

| TS EN 1504-2 / 03.2005<br>Surface Protection Materials / Covering Applications<br>Acrylic Based Curing Material | |
|---|---|
| Principle | 8,2 (C) |
| Reaction To Fire | Class E |
| Adhesion Strength By Pull-Off | ≥ 0,8 N/mm² (0,5)b<br>Horizaontal without traffic load |
| Water Vapor Permeability | Class II |
| Unit Consumption | 0,25 kg/m² (120 m² / 30 kg bin) |

**RISK SIGNS**

**H335:** It may cause respiratory irritation.

**SAFETY SIGNS**

**P305+P351+P338:** In case of contact with eyes, rinse carefully with water a few minutes. If avalible and easy, remove contact lenses. Continue rinsing.

**SHELF LIFE**

Unopened original packages can be stored in dry (%60 R.H.) and cool (between +5°C and +25°C) environments up to 12 months.

## APPLICATION AREAS

Applied by roller, brush or spraying tool on concrete application surfaces (field concretes, retaining walls, columns, joists, terrace roofs, etc.), on C-FLOOR-HARDENER floor hardener application surfaces, on G-GROUT-ST and G-GROUT-RAPID grout-installation-repair mortar application surfaces.

## PREPARING SURFACE

Applicaton surfaces should be clean, sound and free from dust.
Adhesion barrier materials (oil, dirt, dust etc.) should be cleaned.
There shouldn't be any water ponds on surface.

## APPLICATION METHODS

CURE-AR is ready to use, should be shaken before use.
If it will be applied with roler, it is poured into a clean and wide bucket.
If it will be applied by spraying, it is poured into the spraying machine's hopper.
Appiled by on the concrete surface as a one thin layer as uniformly and evenly.
There should not be cure ponds on surface.

**For Concrete Applications:** Cure application should be start when freshly poured concrete surface starts tarnishing (when free water disappears). For concrete application with molds, cure should be applied immediately after removal of molds.
**For C-FLOOR-HARDENER Applications:** Cure application should be start when C-FLOOR-HARDENER applied concrete surface starts drying (no print when pressed on surface).
**For G-GROUT-ST & G-GROUT-RAPID Applications:** Cure application should be start when surface starts tarnishing.

+30 °C
+5 °C
Ambient and surface temperature should be between +5°C and +30°C during the application.

Surface should be protected from direct sunlight, extreme wind and rain during and for 10 hours after the application.

24 hours
It should not be applied on frozen, melting or within 24 hours danger of frost surfaces.

Do not use products which is non-homogenized when mixed, products with a dry film layer on surface or expired.

Water
It is ready to use, any water or material should not be added in it.

If application is not homogeneous, color difference may be seen on surface.


# HYDROCARBON RESIN BASED CONCRETE CURING MATERIAL

## CURE-HR

Hydrocarbon resin & solvent based
liquid curing material
to prevent water loss of
the concrete surface
by creating a film layer
after concrete, screed or
surface hardener applications
(in 30 kg plastic bins)

TS EN 1504-2 : 2005

CE

ISO 9001:2015

## PRODUCT ADVANTAGES

* CURE-HR provides labor and time advantage, by it's easy application feature.
* Increases the surface hardness and prevents dust formation.
* Protects surface against effects of external environment at low humidity, high evaporation and high airflow conditions.
* Reduces possibility of shrinkage formation by high curing.

| TS EN 1504-2 / 03.2005<br>Surface Protection Materials / Covering Applications<br>Hydrocarbon Based Curing Material | |
|---|---|
| Reaction To Fire | Class E |
| Principle | 8,2 (C) |
| Adhesion Strength<br>By Pull-Off | ≥ 0,8 N/mm² (0,5)b |
| Water Vapor Permeability | Class I |
| Unit Consumption | 0,20 kg/m² (150 m² / 30 kg package) |

| RISK SIGNS |
|---|
| **H225:** Highly flammable liquid and vapour. |
| **H304:** May be fatal if swallowed and enters airways. |
| **H315:** Causes skin irritation. |
| **H317:** May cause an allergic skin reaction. |
| **H319:** Causes serious eye irritation. |
| **H336:** May cause drowsiness or dizziness. |
| **H370:** Causes damage to organs. |
| **SAFETY SIGNS** |
| **P101**: If medical advice is needed, have product container or label at hand. |
| **P201**: Obtain special instructions before use. |
| **P210**: Keep away from heat/sparks/open flames/hot surfaces–No smoking. |
| **P233**: Keep container tightly closed. |
| **P240**: Ground/bond container and receiving equipment. |
| **P243**: Take precautionary measures against static discharge. |
| **P260**: Do not breathe dust/fume/gas/mist/vapours/spray. |
| **P273**: Avoid release to the environment. |
| **P280**: Wear protective gloves/protective clothing/eye protection/face protection. |
| **P314**: Get Medical advice/attention if you feel unwell. |
| **P301+310:** IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. |
| **P308+313:** IF EXPOSED OR CONCERNED: Get medical advice/attention. |
| **P305+351+338:** IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do, continue rinsing. |
| **P342+311:** Call a POISON CENTER or doctor/physician. |
| **P403:** Store in a well ventilated place. |
| **SHELF LIFE** |
| Unopened original packages can be stored in dry (%60 R.H.) and cool (between +5°C and +25°C) environments up to 12 months. |

## APPLICATION AREAS

Applied by roller, brush or spraying tool on concrete application surfaces (field concretes, retaining walls, columns, joists, terrace roofs, etc.), on C-FLOOR-HARDENER floor hardener application surfaces, on G-GROUT-ST and G-GROUT-RAPID grout-installation-repair mortar application surfaces.

## PREPARING SURFACE

Applicaton surfaces should be clean, sound and free from dust.
Adhesion barrier materials (oil, dirt, dust etc.) should be cleaned.
There shouldn't be any water ponds on surface.

## APPLICATION METHODS

CURE-HR is ready to use, should be shaken before use.
If it will be applied with roler, it is poured into a clean and wide bucket.
If it will be applied by spraying, it is poured into the spraying machine's hopper.
Appiled by on the concrete surface as a one thin layer as uniformly and evenly.
There should not be cure ponds on surface.

**For Concrete Applications:** Cure application should be start when freshly poured concrete surface starts tarnishing (when free water disappears). For concrete application with molds, cure should be applied immediately after removal of molds.
**For C-FLOOR-HARDENER Applications:** Cure application should be start when C-FLOOR-HARDENER applied concrete surface starts drying (no print when pressed on surface).
**For G-GROUT-ST & G-GROUT-RAPID Applications:** Cure application should be start when surface starts tarnishing.

+30 °C
+5 °C
Ambient and surface temperature should be between +5°C and +30°C during the application.

Surface should be protected from direct sunlight, extreme wind and rain during and for 10 hours after the application.

24 hours
It should not be applied on frozen, melting or within 24 hours danger of frost surfaces.

Do not use products which is non-homogenized when mixed, products with a dry film layer on surface or expired.

Water
It is ready to use, any water or material should not be added in it.

If application is not homogeneous, color difference may be seen on surface.

# MORTAR ADDITIVES

- **MORTAR ADDITIVE FOR FLEXIBILITY AND ADHERENCE** ADD-LATEX
- **MORTAR ADDITIVE FOR WATER IMPERMEABILITY** ADD-M1
- **MORTAR ADDITIVE TO ACCELERATE SETTING TIME** ADD-RAPID
- **MORTAR ADDITIVE TO RETARD SETTING TIME** ADD-RETARDER
- **MORTAR ADDITIVE FOR RESISTANCE TO FREEZING** ADD-ANTIFREEZE


# MORTAR ADDITIVE FOR FLEXIBILITY AND ADHERENCE

## ADD-LATEX

Synthetic rubber based liquid mortar and concrete additive to improve adherence, flexibility, impermeability, workability, chemical resistance features (in 30 kg, 10 kg and 5 kg plastic bins)

ISO 9001:2015

## PRODUCT ADVANTAGES

* Improves adhesion strength of cementious mortars.
* Provides flexibility feature to cementious mortars, prevents crack and shrinkage formation.
* Provides high water impermeability feature to cementious mortars.
* Provides high water impermeability feature to concrete, so prevents reinforcement corrosion.
* Decrease mortar deformation after freeze-thaw.
* Increase chemical resistance in cementious mortars.
* Water based, solvent free.

## APPLICATION AREAS

Used to improve adherence, flexibility, impermeability, workability features of plasters, screeds, concretes, C1 class tile adhesives and repair mortars which are readymixed or prepared by mixing cement and aggregate. Also used as primer to provide a dustness and non-slipping surface on industrial floors and under floor coverings. Used as primer between old and new concrete surfaces to improve adherence.

## PREPARING SURFACE

Applicaiton surface should be clean, sound and free from dust. Adhesion barrier materials (oil, dirt, dust, etc.) should be cleaned, cement-mortar residues should be scraped. Smooth surfaces should be notched. The required preparation steps should be done in accordance with the mortar to be used with ADD-LATEX.

| Mortar Additive For Flexibility And Adherence | |
|---|---|
| Appearance | White liquid |
| Density | 1050 ± 50 g/L |
| pH | 8 - 10 |

**RISK SIGNS**

**H335:** It may cause respiratory irritation.

**SAFETY SIGNS**

**P305+P351+P338:** In case of contact with eyes, rinse carefully with water a few minutes. If avalible and easy, remove contact lenses. Continue rinsing.

**SHELF LIFE**

Unopened original packages can be stored in dry (%60 R.H.) and cool (between +5°C and +25°C) environments up to 12 months.

## APPLICATION METHODS

**Application as Mortar Additive:** A mixing solution is prepared by mixing ADD-LATEX with clean water at a ratio between 1:3 to 1:4.
Prepared mixing solution is mixed with cement/aggregate mixture with a ratio of 1:3 - 1:4 (or with readymix cementious products) by a low speed mixer and applied.
It should not be used with C2 class cementious tile adhesive mortars.

**Application as Primer:** A mixing solution is prepared by mixing ADD-LATEX with clean water at a ratio 1:1. Prepared mixing solution is added to cement/aggregate mixture with a ratio of 1:1. It is blended by a low speed mixer to get a consistent primer mortar.
Mortar is applied by brush on old concrete which has been prepared beforehand.
Before the primer mortar gets completely dry, new concrete or screed application should be done.

+ 30 °C
+ 5 °C
Ambient and surface temperature should be between +5°C and +30°C during the application. It should not be applied on frozen, melting or within 24 hours danger of frost surfaces.

Surface should be protected from direct sunlight, extreme wind and rain during and after the application.

AGGREGATE CEMENT MORTAR
Ensure that the products used in application (aggregate, cement, readymix mortars, etc.) are suitable and non-expired.

Do not use products which is non-homogenized when mixed, products with a dry film layer on surface or expired.

Water
Mortar
Hardened-set mortar should not be used by adding ADD-LATEX or water and mixing again.

It should not be applied on unsound, loose and problematic surfaces.


# MORTAR ADDITIVE FOR WATER IMPERMEABILITY

## ADD-M1

Chlorine-free, liquid, water impermeability additive which reacts with cement and aggregate in concrete and cementious mortars to fill capillary gaps (in 30 kg and 10 kg plastic bins)

ISO 9001:2015

## PRODUCT ADVANTAGES

* Provides high water impermeability feature to mortars and concrete.
* Does not affect setting time of cementious mortars and concrete.
* Improves workability of cementious mortars and concrete.
* Improves strength of mortars and concrete against freeze and thaw.
* Chlorine free, no corrosive effect, no damage to the reinforcement.

## APPLICATION AREAS

Used to provide water impermeability and to improve workability features of plasters, screeds and concretes which are readymixed or prepared by mixing cement and aggregate.

## PREPARING SURFACE

Applicaiton surface should be clean, sound and free from dust. Adhesion barrier materials (oil, dust, etc.) should be cleaned, cement-mortar residues should be scraped. Smooth surfaces should be notched. Proper surface preparation should be done to smooth or water-absorbent surfaces by proper primer application (PRIMER-PLAST, PRIMER-ST or ADD-LATEX-water-cement-aggregate primer mixture). Proper surface preparations should be done in accordance with the mortar to be used with ADD-M1. If there are water leaks, the leakage should be stopped, water level should be lowered.

| Mortar Additive For Water Impermeability | |
|---|---|
| Appearance | Yellow liquid |
| Density | 1050 ± 50 g/L |
| pH | 9 - 11 |

**RISK SIGNS**

**H335:** It may cause respiratory irritation.

**SAFETY SIGNS**

**P305+P351+P338:** In case of contact with eyes, rinse carefully with water a few minutes. If avalible and easy, remove contact lenses. Continue rinsing.

**SHELF LIFE**

Unopened original packages can be stored in dry (%60 R.H.) and cool (between +5°C and +25°C) environments up to 12 months.

## APPLICATION METHODS

**Usage With Dry Readymix Cementious Mortars:** Dry readymix product is added on ADD-M1/water mixture prepared with a ratio 1:10. Drymix and ADD-M1/water mixture ratio should be in accordance with the ratio given in “PRODUCT INFORMATION FORM” of the drymix product. Mortar is blended by a low speed mixer and applied thorugh it’s “PRODUCT INFORMATION FORM”.

**Usage With Screed Prepared By Mixing Cement & Aggregate:** After primer applicaiton, screed applicaiton is done in 2 layers; 1st adhesion layer, 2nd main floor layer. 1st adhesion layer should be minimum 10 mm thickness and leveled by steel trowel. 2nd main floor layer should be minimum 30 mm thickness and leveled by a wooden trowel after tamping.

+ 30 °C
+ 5 °C
Ambient and surface temperature should be between +5°C and +30°C during the application. It should not be applied on frozen, melting or within 24 hours danger of frost surfaces.

Surface should be protected from direct sunlight, extreme wind and rain during and after the application.

AGGREGATE CEMENT MORTAR
Ensure that the products used in application (aggregate, cement, readymix mortars, etc.) are suitable and non-expired.

Do not use products which is non-homogenized when mixed, products with a dry film layer on surface or expired.

Water
Mortar
Hardened-set mortar should not be used by adding ADD-M1 or water and mixing again.

It should not be applied on unsound, loose and problematic surfaces.

# MORTAR ADDITIVE TO ACCELERATE SETTING TIME

## ADD-RAPID

Chlorine-free, liquid, mortar additive which allows cementious concrete and mortars to be applied in cold and frost weather by accelerating the setting time through increasing hydration temperature of cement and decreasing the freezing point of the water (in 30 kg and 10 kg plastic bins)


ISO 9001:2015

## PRODUCT ADVANTAGES

* Increases the early strength of cement based mortars and concrete against frost and cold weather effects, allows application in such weather conditions.
* Shortens starting and finish settling times of mortars and concrete.
* Chlorine free, no corrosive effect, no damage to the reinforcement.
* Shortens the concrete form releasing and labor time in cold weather.

## APPLICATION AREAS

Used to accelerate the setting of concrete mortars for applications that early concrete form release is needed, to increase the early strength for applications that high early strength is needed and to protect the cementious plaster, screed and concrete mortars from the effects of cold-freeze-sudden temperature change risk weather conditions.

## PREPARING SURFACE

Applicaiton surface should be clean, sound and free from dust. Adhesion barrier materials (oil,dust, etc.) should be cleaned, cement-mortar residues should be scraped. Smooth surfaces should be notched. The required surface preparation steps should be done in accordance with the mortar to be used with ADD-RAPID. Snow and ice on the surface should be cleaned.

| Mortar Additive To Accelerate Setting Time | |
|---|---|
| Appearance | Brown liquid |
| Density | 1050 ± 50 g/L |
| pH | 6 - 8 |

**RISK SIGNS**

**H335:** It may cause respiratory irritation.

**SAFETY SIGNS**

**P305+P351+P338:** In case of contact with eyes, rinse carefully with water a few minutes. If avalible and easy, remove contact lenses. Continue rinsing.

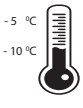
**SHELF LIFE**

Unopened original packages can be stored in dry (%60 R.H.) and cool (between +5°C and +25°C) environments up to 12 months.

## APPLICATION METHODS

ADD-RAPID is added in mixture water as 3% (max. 6%) of the mixture water weight depending on the weather. Cementious dry mixture is added in prepared ADD-RAPID/ water mixture by sprinkling. Blended by a low speed mixer up to ensure that there are no lumps in. For usage as concrete additive, ADD-RAPID is added in mixture water as 3-6 % of the mixture water weight and mixed. When ADD-RAPID is used in concrete, mixture water should be decreased up to 3%. Any water or ADD-RAPID should not be added in prepared mixture.

Ensure that the products used in the application (aggragate, cement, etc.) are not frozen.
Usage as mortar additive, mortar temperature should be minimum + 5°C. If needed the mixing water or the environment should be heated to provide necessary application temperature.
When used as concrete additive, fresh concrete temperature should be minimum + 5°C. If needed the concrete forms, aggregate, mixing water or cement should be heated to provide necessary temperature.
Concrete must be protected by suitable curing methods until 5 N/mm$^2$ strength, rapid temperature/moisture loss should be prevented.




It can be applied at ambient temperature up to -5°C. Below precautions should be taken to provide application temperature at ambient temperatures up to -10°C.

Do not use products which is non-homogenized when mixed, products with a dry film layer on surface or expired.

The performance and usage can change thorugh weather conditions and the products to be used together. Optimum mixing ratio should be determined by performing compatibility tests before use.


Hardened-frozen mortar shouldn't be used by adding ADD-RAPID or water and mixing.


If it is frozen before use, it can be thawed at + 20°C and can be used after shaking.

It should not be applied on unsound, loose and problematic surfaces.


# MORTAR ADDITIVE TO RETARD SETTING TIME

## ADD RETARDER

Chlorine-free, flowability featured, liquid mortar additive which allows cementious concrete and mortars to be applied in hot and windy weather conditions by decelerating the setting time (in 30 kg and 10 kg plastic bins)

ISO 9001:2015

### PRODUCT ADVANTAGE

* Extends the setting time of cementious mortars and concrete despite the effects of hot / windy weather, allows application in such weather conditions.
* Provides high workability properties for mortars and concrete.
* No negative effect on final strength of mortars and concrete.
* Provides good dispersion of concrete in forms by it's flowability feature.
* Chlorine free, no corrosive effect, no damage to the reinforcement.

### APPLICATION AREAS

Used to increase workability of cementious plasters, screeds and concrete mortars by decelerating the setting time hot weather conditions over +35°C, to prevent setting of concrete transported over long distances,to provide workability in long-running applications.

### PREPARING SURFACE

Applicaiton surface should be clean, sound and free from dust. Adhesion barrier materials (oil, dust, etc.) should be cleaned, cement-mortar residues should be scraped. Smooth surfaces should be notched. Required surface preparation steps should be done in accordance with the mortar to be used with ADD-RETARDER.

| Mortar Additive For Retarding Setting Time | |
|---|---|
| Appearance | Brown liquid |
| Density | 1050 ± 50 g/L |
| pH | 6 - 8 |

**RISK SIGNS**

**H335:** It may cause respiratory irritation.

**SAFETY SIGNS**

**P305+P351+P338:** In case of contact with eyes, rinse carefully with water a few minutes. If avalible and easy, remove contact lenses. Continue rinsing.

**SHELF LIFE**

Unopened original packages can be stored in dry (%60 R.H.) and cool (between +5°C and +25°C) environments up to 12 months.

### APPLICATION METHODS

ADD-RETARDER is added in mixture water as 0,3 % (max. 2 %) of cement weight depending on the weather. Cementious dry mixture is added in prepared ADD-RETARDER/water mixture by sprinkling. Blended by a low speed mixer up to ensure that there are no lumps in. For usage as concrete additive, ADD-RETARDER is addedas 0,3 % (max. 2%) of the cement weight in %30 of mixture water. First 70% of mixture water is added to dry concrete mixture, then the remaining 30% part which includes ADD-RETARDER is added. Any water or ADD-RETARDER should not be added in prepared mixture.

As the performance and usage of the product will vary depending on the weather conditions and the products to be used together, for the desired performance, practitioner should determine the optimum mixing ratio for the products and weather conditions by performing compatibility tests before use.
When concrete setting starts hydratation will be very fast, so concrete should be protected by suitable curing methods to prevent sudden and rapid moisture loss.

+ 50 °C — It can be applied at ambient temperature up to +50°C.

The performance and usage can change thorugh weather conditions and the products to be used together. Optimum mixing ratio should be determined by performing compatibility tests before use.

Ensure that the products used in application (aggregate, cement, readymix mortars, etc.) are suitable and non-expired.

Do not use products which is non-homogenized when mixed, products with a dry film layer on surface or expired.

Water / Mortar — Hardened-frozen mortar shouldn't be used by adding ADD-RETARDER or water and mixing.

It should not be applied on unsound, loose and problematic surfaces.


# MORTAR ADDITIVE FOR FREEZING RESISTANCE

## ADD-ANTIFREEZE

Chlorine-free, liquid, mortar additive which allows cementious concrete and mortars to be applied in cold and frost weather by accelerating the setting time through increasing hydration temperature of cement and decreasing the freezing point of the water (in 30 kg and 10 kg plastic bins)

ISO 9001:2015

### PRODUCT ADVANTAGES

* Increases the early strength of cement based mortars and concrete against frost and cold weather effects, allows application in such weather conditions.
* Shortens starting and finish settling times of mortars and concrete.
* Chlorine free, no corrosive effect, no damage to the reinforcement.
* Shortens the concrete form releasing and labor time in cold weather.

### APPLICATION AREAS

Used to accelerate the setting of concrete mortars for applications that early concrete form release is needed, to increase the early strength for applications that high early strength is needed and to protect the cementious plaster, screed and concrete mortars from the effects of cold-freeze-sudden temperature change risk weather conditions.

### PREPARING SURFACE

Applicaiton surface should be clean, sound and free from dust. Adhesion barrier materials (oil,dust, etc.) should be cleaned, cement-mortar residues should be scraped. Smooth surfaces should be notched. The required surface preparation steps should be done in accordance with the mortar to be used with ADD-ANTIFREEZE. Snow and ice on the surface should be cleaned.

| Mortar Additive To Accelerate Setting Time | |
|---|---|
| Appearance | Brown liquid |
| Density | 1050 ± 50 g/L |
| pH | 6 - 8 |

**RISK SIGNS**

**H335:** It may cause respiratory irritation.

**SAFETY SIGNS**

**P305+P351+P338:** In case of contact with eyes, rinse carefully with water a few minutes. If avalible and easy, remove contact lenses. Continue rinsing.

**SHELF LIFE**

Unopened original packages can be stored in dry (%60 R.H.) and cool (between +5°C and +25°C) environments up to 12 months.

### APPLICATION METHODS

ADD-ANTIFREEZE is added in mixture water as 1% (max. 5%) of the cement weight depending on the weather. Cementious dry mixture is added in prepared ADD-ANTIFREEZE/water mixture by sprinkling. Blended by a low speed mixer up to ensure that there are no lumps in. For usage as concrete additive, ADD-ANTIFREEZE is added in mixture water as 1% of the cement weight and mixed. When ADD-ANTIFREEZE is used in concrete, mixture water should be decreased up to 3%. Any water or ADD-ANTIFREEZE should not be added in prepared mixture.

Ensure that the products used in the application (aggragate, cement, etc.) are not frozen.
Usage as mortar additive, mortar temperature should be minimum + 5°C. If needed the mixing water or the environment should be heated to provide necessary application temperature.
When used as concrete additive, fresh concrete temperature should be minimum + 5°C. If needed the concrete forms, aggregate, mixing water or cement should be heated to provide necessary temperature.
Concrete must be protected by suitable curing methods until 5 N/mm$^2$ strength, rapid temperature/moisture loss should be prevented.

- 10 °C
- 20 °C

It can be applied at ambient temperature up to -10°C. Below precautions should be taken to provide application temperature at ambient temperatures up to -20°C.

Do not use products which is non-homogenized when mixed, products with a dry film layer on surface or expired.

The performance and usage can change thorugh weather conditions and the products to be used together. Optimum mixing ratio should be determined by performing compatibility tests before use.

Water
Mortar

Hardened-frozen mortar shouldn't be used by adding ADD-ANTIFREEZE or water and mixing.

+20°C

If it is frozen before use, it can be thawed at + 20°C and can be used after shaking.

It should not be applied on unsound, loose and problematic surfaces.

# LIME PRODUCTS

- **CL 90-S** / **CALCIUM HYDRATED LIME** *super white*
- **CL 80-S** / **CALCIUM HYDRATED LIME** *white*
- **CL 90-S** / **CALCIUM HYDRATED LIMEWASH** *super white*
- **CL 80-S** / **CALCIUM HYDRATED AGRICULTURE LIME** *white*
- **CL 90-Q** / **CALCIUM QUICK LIME** *super white*


# CL 90-S

## CALCIUM HYDRATED LIME

*super white*

Highly pure,
micronised,
calcium hydrated lime
(CL 90-S)

TS EN 459-1 / 10.2015

CE 14

ISO 9001:2015

### APPLICATION AREAS

* Water Treatment
* Waste Water Purification
* Flue Gas Desulphurization
* Acid Neutralization
* Sugar Refinery
* Pharmaceutical Production
* Oil and Petroleum Additives
* Calcium Carbide Production
* Plastic and Resin Production
* Metallurgy
* Paint Industry
* In mortars and plasters
* Road Stabilization
* pH Adjustment of Soil
* Animal Feeds
* Disinfection

### MORTAR PREPARATION

7 packages lime and 1 $m^3$ sand are added on 200 liters of clean water by sprinkling and it is blended by a low speed mixer to ensure that there are lumps in it.

### PACKAGES

* 25 Kg kraft packages
* 1.000 Kg laminated qbags as bulk
* Silobus as bulk

| TS EN 459-1 / 10.2015<br>Calcium Hydrated Air-Lime (CL 90-S) | |
|---|---|
| CaO + MgO | ≥ 90,0 % |
| Avaliable Lime | ≥ 80,0 % |
| MgO | ≤ 5,0 % |
| $CO_2$ | ≤ 4,0 % |
| $SO_3$ | ≤ 2,0 % |
| Free Water Content | ≤ 2,0 % |
| Soundness (Referance Method) | ≤ 2,0 mm |
| Penetration | < 50,0 mm |
| Air Content | ≤ 12,0 % |
| Particle Size (Over 200 µ sieve) | ≤ 0,1 |
| Particle Size (Over 90 µ sieve) | ≤ 1,0 % |
| Dry Bulk Density | 450 ± 100 g/L |

| RISK SIGNS |
|---|
| **H314:** Causes serious skin burns and eye damage. |
| **H335:** May cause respiratory irritation. |
| **SAFETY SIGNS** |
| **P101:** If medical advice is needed, keep package and label. |
| **P280:** Wear protective gloves/protective clothing/eye protection/face protection. |
| **P305+P351+P338:** In case of contact with eyes, rinse carefully with water a few minutes. If avalible and easy, remove contact lenses. Continue rinsing. |
| **P310:** Immediately call a poison centre or doctor. |
| **SHELF LIFE** |
| Unopened original packages can be stored in dry (%60 R.H.) and cool (between +5°C and +25°C) environments for up to 12 months. |


# CL 80-S

## CALCIUM HYDRATED LIME

*white*

Pure and micronised, calcium hydrated lime (CL 80-S)

TS EN 459-1 / 10.2015

CE 14

ISO 9001:2015

### APPLICATION AREAS

* Water Treatment
* Waste Water Purification
* Flue Gas Desulphurization
* Acid Neutralization
* Sugar Refinery
* Pharmaceutical Production
* Oil and Petroleum Additives
* Calcium Carbide Production
* Plastic and Resin Production
* Metallurgy
* Paint Industry
* In mortars and plasters
* Road Stabilization
* pH Adjustment of Soil
* Animal Feeds
* Disinfection

### MORTAR PREPARATION

7 packages lime and 1 $m^3$ sand are added on 200 liters of clean water by sprinkling and it is blended by a low speed mixer to ensure that there are lumps in it.

### PACKAGES

* 25 Kg kraft packages
* 1.000 Kg laminated qbags as bulk
* Silobus as bulk

| TS EN 459-1 / 10.2015<br>Calcium Hydrated Air-Lime (CL 80-S) | |
|---|---|
| CaO + MgO | ≥ 80,0 % |
| Avaliable Lime | ≥ 70,0 % |
| MgO | ≤ 5,0 % |
| $CO_2$ | ≤ 7,0 % |
| $SO_3$ | ≤ 2,0 % |
| Free Water Content | ≤ 2,0 % |
| Soundness (Referance Method) | ≤ 2,0 mm |
| Penetration | < 50,0 mm |
| Air Content | ≤ 12,0 % |
| Particle Size (Over 200 µ sieve) | ≤ 2,0 |
| Particle Size (Over 90 µ sieve) | ≤ 7,0 % |
| Dry Bulk Density | 550 ± 100 g/L |

| RISK SIGNS |
|---|
| **H314:** Causes serious skin burns and eye damage. |
| **H335:** May cause respiratory irritation. |
| **SAFETY SIGNS** |
| **P101:** If medical advice is needed, keep package and label. |
| **P280:** Wear protective gloves/protective clothing/eye protection/face protection. |
| **P305+P351+P338:** In case of contact with eyes, rinse carefully with water a few minutes. If avalible and easy, remove contact lenses. Continue rinsing. |
| **P310:** Immediately call a poison centre or doctor. |
| **SHELF LIFE** |
| Unopened original packages can be stored in dry (%60 R.H.) and cool (between +5°C and +25°C) environments for up to 12 months. |


# CL 90-S

## CALCIUM HYDRATED LIMEWASH

*super white*

Highly pure, micronised, calcium hydrated lime for whitewashing (CL 90-S)

TS EN 459-1 / 10.2015

CE 14

ISO 9001:2015

### ADVANTAGES

* Whitens the walls and ceilings.
* Provides disinfection of the rooms.
* Prevents the formation of bacteria, mold and mushrooms on walls and ceilings.

### MORTAR PREPARATION

25 kg Nur Limewash is added on 75 liters of clean water by sprinkling and it is blended by a low speed mixer to ensure that there are lumps in it.

### MORTAR PREPARATION

Applied uniformly and evenly to the entire surface with a roller or brush.

| TS EN 459-1 / 10.2015<br>Calcium Hydrated Air-Lime (CL 90-S) | |
|---|---|
| CaO + MgO | ≥ 90,0 % |
| Avaliable Lime | ≥ 80,0 % |
| MgO | ≤ 5,0 % |
| $CO_2$ | ≤ 4,0 % |
| $SO_3$ | ≤ 2,0 % |
| Free Water Content | ≤ 2,0 % |
| Soundness (Referance Method) | ≤ 2,0 mm |
| Penetration | < 50,0 mm |
| Air Content | ≤ 12,0 % |
| Particle Size (Over 200 µ sieve) | ≤ 0,1 |
| Particle Size (Over 90 µ sieve) | ≤ 1,0 % |
| Dry Bulk Density | 450 ± 100 g/L |

| RISK SIGNS |
|---|
| **H314:** Causes serious skin burns and eye damage. |
| **H335:** May cause respiratory irritation. |
| **SAFETY SIGNS** |
| **P101:** If medical advice is needed, keep package and label. |
| **P280:** Wear protective gloves/protective clothing/eye protection/face protection. |
| **P305+P351+P338:** In case of contact with eyes, rinse carefully with water a few minutes. If avalible and easy, remove contact lenses. Continue rinsing. |
| **P310:** Immediately call a poison centre or doctor. |
| **SHELF LIFE** |
| Unopened original packages can be stored in dry (%60 R.H.) and cool (between +5°C and +25°C) environments for up to 12 months. |


# CL 80-S

## CALCIUM HYDRATED AGRICULTURE LIME

*white*

Pure and micronised, calcium hydrated lime for agriculture (CL 80-S)

TS EN 459-1 / 10.2015

CE 14

ISO 9001:2015

## ADVANTAGES

* Provides balancing the pH of the soil with low pH as a result of the soil analysis report.
* Provides neutralizing of lakes, swamps, rivers and forests which has acidic character.
* Provides consolidating of plant cell membranes in the soil, so provides ion transport from the soil to the plant body and thus provides ion balance of the cell.
* Provides production of enzymes stabilizing phosphates in plant.
* Provides increase at the effect of fertilizers.
* Provides increase at microorganism and bacterial activities that are useful for plants.
* Contributes to plant nutrition with it's magnesium and trace elements (Zn, Mo, etc.).
* Provides increase at air and water permeability of clay soils.
* Contributes to humus clustering.
* Provides soil stabilization against erosion.
* Provides elimination the toxic effects of $Al^{+3}$ and $Mn^{+2}$ in the soil.
* Provides soil disinfection.

## MORTAR PREPARATION

Applied by sprinkling and mechanically mixing with soil.

* Consumption per $m^2$ soil should be through soil analysis report or directions of agricultre engineer.

| TS EN 459-1 / 10.2015<br>Calcium Hydrated Air-Lime (CL 80-S) | |
|---|---|
| CaO + MgO | ≥ 80,0 % |
| Avaliable Lime | ≥ 70,0 % |
| MgO | ≤ 5,0 % |
| $CO_2$ | ≤ 7,0 % |
| $SO_3$ | ≤ 2,0 % |
| Free Water Content | ≤ 2,0 % |
| Soundness (Referance Method) | ≤ 2,0 mm |
| Penetration | < 50,0 mm |
| Air Content | ≤ 12,0 % |
| Particle Size (Over 200 µ sieve) | ≤ 2,0 |
| Particle Size (Over 90 µ sieve) | ≤ 7,0 % |
| Dry Bulk Density | 550 ± 100 g/L |

| RISK SIGNS |
|---|
| **H314:** Causes serious skin burns and eye damage. |
| **H335:** May cause respiratory irritation. |
| **SAFETY SIGNS** |
| **P101:** If medical advice is needed, keep package and label. |
| **P280:** Wear protective gloves/protective clothing/eye protection/face protection. |
| **P305+P351+P338:** In case of contact with eyes, rinse carefully with water a few minutes. If avalible and easy, remove contact lenses. Continue rinsing. |
| **P310:** Immediately call a poison centre or doctor. |
| **SHELF LIFE** |
| Unopened original packages can be stored in dry (%60 R.H.) and cool (between +5°C and +25°C) environments for up to 12 months. |


# CL 90-Q

## CALCIUM QUICK LIME

*super white*

Highly pure, granulated, calcium quick lime (CL 90-Q)

TS EN 459-1 / 10.2015

CE 14

ISO 9001:2015

### APPLICATION AREAS

* Water Treatment
* Waste Water Purification
* Flue Gas Desulphurization
* Acid Neutralization
* Sugar Refinery
* Pharmaceutical Production
* Oil and Petroleum Additives
* Calcium Carbide Production
* Plastic and Resin Production
* Metallurgy
* Paint Industry
* In mortars and plasters
* Road Stabilization
* pH Adjustment of Soil
* Animal Feeds
* Disinfection

### PACKAGES

* 10 Kg PP packages
* 25 Kg PP packages
* 1.000 Kg laminated qbags as bulk
* Silobus as bulk

| TS EN 459-1 / 10.2015<br>Calcium Air Quick Lime (CL 90-Q / $P_{sv}$ / $R_{sv}$) | |
|---|---|
| CaO + MgO | ≥ 90,0 % |
| Avaliable Lime | ≥ 80,0 % |
| MgO | ≤ 5,0 % |
| $CO_2$ | ≤ 4,0 % |
| $SO_3$ | ≤ 2,0 % |
| Free Water Content | ≤ 2,0 % |
| Dry Bulk Density | 450 ± 100 g/L |
| Reactivity | 3 min. ≤ t60 ≤ 20 min. |

| RISK SIGNS |
|---|
| **H314:** Causes serious skin burns and eye damage. |
| **H335:** May cause respiratory irritation. |
| **SAFETY SIGNS** |
| **P101:** If medical advice is needed, keep package and label. |
| **P280:** Wear protective gloves/protective clothing/eye protection/face protection. |
| **P305+P351+P338:** In case of contact with eyes, rinse carefully with water a few minutes. If avalible and easy, remove contact lenses. Continue rinsing. |
| **P310:** Immediately call a poison centre or doctor. |
| **SHELF LIFE** |
| Unopened original packages can be stored in dry (%60 R.H.) and cool (between +5°C and +25°C) environments for up to 12 months. |


NUR® YAPI KİMYASALLARI

NUR® KİREÇ

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