NUR YAPI KİMYASALLARI
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TECHNICAL DATA SHEET
MANTO-PLAST

THERMAL INSULATION BOARD MORTAR

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

APPLICATION AREAS:
Applied by hand on any kind of insulation panels (rockwool, EPS, XPS, etc.) as horizontal and vertical at indoors and outdoors.

ADVANTAGES:
* MANTO-PLAST plaster provides labor and time advantage, by it's easy preparation and application features.
* Provides high durability and adhesion on insulation boards.
* Provides less consumption at unit area by it's special formula.
* Protects insulation boards against water and moisture damage with its low water absorption feature.
* Prevents formation of shrinkage cracks by fiber reinforcement.
* Prevents condensation with high water vapor permeability.

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

PRODUCT PREPARATION:
25 kg MANTO-PLAST is added on 5,0 - 6,0 liters of clean water by sprinkling. Blended by a low speed mixer or by a trowel to ensure that there are no lumps in it. Mortar is rested for 5 min. to mature and mixed again before the application.

APPLICATION METHODS:
* MANTO-PLAST mortar is applied uniformly to entire surface as 2 mm thickness as the 1.st layer by a steel trowel.
* In order to prevent crack formation, plaster fiber mesh should be applied to whole surface. Mesh is placed by stretching while 1st layer mortar surface is still fresh and is embeded on plaster as gently pressing from bottom to top by a trowel. It should be avoided from folding of mesh during application. Plaster meshes are placed as endpoints min. 10 cm overlapped.
* In order to prevent crack formation, corner profile with mesh should be applied at corners. Profile is placed while 1st layer mortar surface is still fresh and is embeded on plaster as gently pressing from bottom to top by a trowel. Corner profile is placed as 1 cm overlapped on mesh.
* When 1st layer surface starts drying, 2nd layer MANTO-PLAST mortar is applied uniformly by a steel trowel as 2mm.
* After drying time is completed, surface becomes ready for the 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 the prepared mortar.
* Mortar should not be applied on unsound and loose boards.
* 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 mortar shouldn't be used by mixing water again.
* RECOMMENDATIONS: W-100, W-DECO and W-DECO/L plasters can be applied on MANTO-PLAST.

SHELF LIFE:
Unopened original packages can be stored in dry (%60 R.H.) and cool (+5˚C / +25˚C) environments for up to 12 months.

APPLICATION LIMITS:
Maturation Time: 5 min.
Workability Time: 1 hour
Time For Anchor Application : 2 days minimum

UNIT CONSUMPTION:
5 m² / 25 kg package (Application thickness: 4 mm)

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NUR KİREÇ SAN. TİC. VE PAZ. LTD. ŞTİ.
Güzel Cumhuriyet Mah. Çimento Bulv. No:23 PK: 01965
Yüreğir/Adana/Türkiye
NUR YAPI KİMYASALLARI
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TSE-025927-TSE-09/01
TS 13687 / 02.2016
Sistem 2+

CEMENT BASED PLASTER MORTAR FOR HEAT INSULATION BOARD
Fire Reaction Class: A1; Mortar Type: Air Lime + Cement Mortars In Which The Ratio Of Air Lime And Cement Mortar Mass To Total Binding Mass Does Not Exceed 50%

Reaction To Fire	Sınıf A1
Dry Bulk Density	≥ 1150 g/L
Dry Bulk Density Of Hardened Mortar	1300 ± 150 g/L
Compressive Strength	≥ 6,0 N/mm²
Bending Strength	≥ 2,0 N/mm²
Adhesion Strength To Thermal Ins. Board	≥ 0,08 N/mm²
Thermal Conductivity	≤ 0,45 W/mK (P=50%)
Capilary Water Absorption	≤ 0,5 kg/m2dk^{0,5}
Water Vapor Permeability	μ ≤ 15
Grain Size / Over 1 mm Sieve	≤ 1 %
PERFORMANCE DECLARATION NO	13687 / PB-03.002


GHS05


GHS07

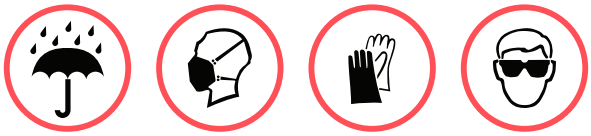
H315: *It causes skin irritation.*

H318: *It causes serious eye damage.*

H335: *It may cause respiratory irritation.*

P280: *Wear protective gloves/protective cloths/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.*



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NUR KİREÇ SAN. TİC. VE PAZ. LTD. ŞTİ.
GÜZEL CUMHURİYET MAH. ÇİMENTO BULV. NO:23
PK:01965 YÜREĞİR/ADANA/TÜRKİYE
TEL: +90 322 332 9646
www.nurkim.com.tr
nurkim@nurkim.com.tr
FAKS: +90 322 332 8302
www.nurkirec.com.tr
nurkirec@nurkirec.com.tr