



TECHNICAL DATA SHEET

MANTO-FIX

THERMAL INSULATION BOARD ADHESIVE MORTAR

DESCRIPTION:

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

APPLICATION AREAS:

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

ADVANTAGES:

- * MANTO-FIX adhesive provides labor and time advantage, by it's easy preparation and application features.
- * Improved with special additives 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 insulation boards at vertical applications.
- * Provides extended open time.

SURFACE PREPARATION:

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

PRODUCT PREPARATION:

25 kg MANTO-FIX adhesive is added on 5,5 - 6,5 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 minutes to mature and mixed again before the application.

APPLICATION METHODS:

- * MANTO-FIX mortar is applied uniformly to backside surface of the insulation board by leaving 5 mm from the edges with circular motions by a 10 mm notched trowel.
- * Mortar shouldn't overflow from edges of the boards during the application.
- * To get high adhesion for fixing of large size-heavy boards, MANTO-FIX should be applied both on backside of boards and on to the surface. Double-sided adhesion should be done.
- * Insulation boards are placed on surface without leaving gaps.
- * To get high adhesion strength, insulation board is fixed to the surface by gently tapping with a rubber mallet.
- * After fixing of insulation board, mortars overflowing from the edges should be cleaned not to have gaps between boards.
- * Minimum 24 hours after fixing the insulation boards, 6 holes are drilled for each 1 m² by a drill with a suitable width, especially at the junctions of the boards. Anchors produced in accordance with the applied thermal insulation board are placed in these holes and fixed by tapping with a rubber mallet.
- * After anchor application is finished, board surface becomes ready for MANTO-PLAST plaster application on it.
- * If a film layer formed on mortar, it should not be used. It should be scraped off the surface and new mortar should be applied.
- * Thermal insulation boards should be straight, sound and dry. Improper, skewed and damaged boards will reduce the adhesion performance of the product.
- * 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 surfaces.
- * Surface should be protected from airflows, 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 should not be used by mixing water again.

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 : 1 day

UNIT CONSUMPTION:

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



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TSE-025927-TSE-05/01
TS 13566 / 06.2013
Sistem 2+

CEMENT BASED ADHESIVE FOR HEAT INSULATION BOARD

Fire Reaction Class: A1; Mortar Type: Air Lime + Cement Mortars In Which The Ratio Of Cement Mass To Total Binding Mass Does Not Exceed 50%

Reaction To Fire	Sınıf A1
Dry Bulk Density Of Fresh Mortar	≥ 1000 g/L
Compressive Strength	≥ 6,0 N/mm ²
Bending Strength	≥ 2,0 N/mm ²
Adhesion Strength To Substrate	≥ 0,5 N/mm ²
Adhesion Strength To Thermal Insulation Board	≥ 0,08 N/mm ²
Water Absorption After 30 min.	≤ 5 g
Water Absorption After 240 min.	≤ 10 g
Grain Size / Over 1 mm Sieve	≤ 1 %

PERFORMANCE DECLARATION NO

13566 / PB-03.001



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

