4010

Heat Insulation Plate Plastering Mortar - Fiber Supported

TSE G

Product Code : 4010
Quality Certificates
The product conforms to the TS 13687 standard.

Description: A high-performance, cement-based, fiber-supported, fine aggregated plastering mortar which contains polymer additives. Produced specifically for heat insulation plates (XPS, EPS, stone wool).

Application Areas: Indoor and outdoor, plastering heat insulation plates (expanded polystyrene (EPS) and extruded polystyrene (XPS), stone wool, polyurethane plates etc.).

Advantages:
- Easily applied, providing perfect adhesion.
- Resistant to water and frost.
- Not affected by temperature changes.
- Flexible.
- Provides high stability, does not cause sagging and cracking.
- Allows water vapor diffusion.
- Paint can be directly applied on top of it.

Preparation of the Surface: Both the application surface and the plates must be sound and clear of materials which prevent bonding, such as dust, oil, paint, silicone, curing agents and detergents. The plates to be plastered have to be sound and fixated well, and the gaps between them should be filled with Polyurethane Foam or with the same material.

Preparation of the Mortar: 25 kg of Falcon Heat Insulation Plate Plastering Mortar - Fiber Supported is added to approximately 6 - 7 liters of clean water and mixed by a mixer with low speed or with a trowel, until there are no lumps. Prepared mortar should be left to mature for 5 -10 minutes, then be mixed again before use. The mortar must be used within 2 hours.

Application Information: Within 24 hours of fixing heat insulation plates with wall plugs, apply the first coat of plaster with a trowel to a thickness of about 2 mm. While the applied mortar is still wet, the synthetic reinforcement mesh is pressed downwards by stretching and embedded inside the mortar. About 6 hours later, the surface is moisturized and the mesh is covered with a second coat of plaster to a thickness of 2 mm, and the surface becomes smooth for painting. To prevent cracking, ensure that the mesh overlaps by 10 cm at the joints. Wait 2 - 3 days before painting, depending on the weather conditions and application thickness. In high temperatures, moisturize the surface until the cement is set.

Consumption: 3 - 4 kg/m^2 (Varies depending on the application method.)

Caution: Avoid application in temperatures below +5°C and above +35°C. Avoid application on frozen areas, on areas under risk of freezing in 24 hours or on areas open to direct sunlight or wind. Pay attention that there will be no snow or extreme cold weather conditions until the cement sets (about 1 week) following the application. Never attempt to extend expired mortar by adding powder and water. Pay attention not to use plates that lost their properties due to intensive sun exposure. The values mentioned above are obtained at 23±2ºC and 50±5 relative humidity conditions.

Packaging: 25 kg craft bags

Shelf Life: Unopened packages can be stored in dry environments for up to 12 months, stacked maximum 10 packages on a pallet.

Health and Safety: As with all chemical products, contact with food, skin, eyes and mouth should be avoided during usage and storing. If swallowed by accident, consult a doctor. In case of contact with skin, rinse with plenty of water. Keep out of reach of children.

Technical Properties	
Appearance	: Grey colored fine powder
Powder Density	: ~1.30 kg/lt
Water Mixing Rate	: 6 - 7 lt water / 25 kg powder
Resting Period	: 5 - 10 minutes
Pot Life	: Appr. 2 hours
Application Temperature	: Between +5°C and +35°C
Aggregate Size	: Amount above of 1 mm sieve ≤ 1.0% (TS EN 1015 -1)
Air Content of Fresh Mortar	: ≥ 1150 kg/m^3 (TS EN 1015 - 6)
Dry Bulk Density of Hardened Mortar	: 1300±200 kg/m^3 (TS EN 1015 -10)
Flexural Strength	: ≥ 2.0 N/mm^2 (TS EN 1015 -11)
Compressive Strength	: ≥ 6.0 N/mm^2 (TS EN 1015 -11)
Adhesion Strength to the Thermal Insulation Plate	: ≥ 0.08 N/mm^2 (TS EN 13494)
Water Absorption	: ≤ 0.5 kg/(m^2.min$^{0.5}$) (TS EN 1015 -18)
Water Vapor Permeability Coefficient	: μ ≤ 15 (TS EN 1015 -19)
Thermal Conductivity	: 0.3 λhW/mK (TS EN 1745 -Table A12)
Service Temperature	: -20°C / +70°C

Application instructions and technical data provided for the products are obtained in line with our experience and the tests we implemented according to international standards under ambient temperatures of 23 ± 2 °C and ambient relative humidity conditionsof 50%±5. Higher temperatures decrease the times and lower temperatures increase them.

FALCON Yapı Kimyasalları