4080

Insulation Plaster with Perlite

Product Code : 4080.01
Quality Certificates
The product conforms to the EN 998-1 standard.

Description: Cement-based insulation plaster with perlite, which provides increased heat and sound insulation properties. The plaster is composed of coarse aggregate, and prepared with special particle-sized fillers and performance increasing chemicals.

Application Areas: Indoor and outdoor, ceilings and vertical surfaces, surfaces such as ready-mixed coarse plaster, gas concrete, brick, pumice and briquette, on top of load bearing system components such as columns, beams, shear walls, places with high concentrations of water and water vapor.

Advantages:
- Integrates with the surface easily since it is cement based.
- Preferred to gypsum because of its high resistance to cracking, especially on surfaces such as gas concrete.
- Can be used on ceilings and vertical surfaces since it displays thixotropic behavior.
- Provides sound and heat insulation due to its perlite content.
- Its light weight reduces the dead load of the structure.
- Can be used on raw concrete before gypsum application in order to protect the reinforcement against corrosion.
- Recommended for surfaces that have imperfect mold surface and on where plastering application is required.
- Provides strong adherence.
- Moisture resistant while allowing the structure to breathe, has high water vapor permeability.
- Fire resistant.

Preparation of the Surface: Special attention must be given that the application surface is cured and sound. The application surface must be clear of materials which prevent bonding, such as dust, oil, paint, curing agents, lime, detergents, mold release oils and silicone. The application must be kept wet. High water absorbent surfaces such as gas concrete require more moisture. If required, the surface should to be primed with Multi-Purpose Primer or Primer for Exposed Concrete Surfaces prior to the application of Falcon Insulation Plaster with Perlite .

Preparation of the Mortar: 35 kg of Falcon Insulation Plaster with Perlite is added to approximately 8.5 – 9.5 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 in 1.5 - 2 hours.

Application Information: The sections that are selected depending on the application thickness are placed in a way that they do not exceed the length of the float and are filled vertically. The product should be applied in layers with a steel trowel, and floated by spreading it evenly over the surface. Before the mortar dries, the surface should be floated with a trowel. Can be applied in minimum 1cm and maximum 3 cm in thickness. Plastering mesh should be used to prevent cracks at the intersections of different materials, such as concrete and brick. Interior and exterior plaster profiles should be used at the centers. Keep the surface wet for 24 hours following the application, where the surface is exposed directly to sun and under very hot weather conditions. For a smoother surface, plaster with Falcon Finishing Plaster on top of Falcon Insulation Plaster with Perlite (White).

Consumption: 10 - 12 kg/m^2 for thickness of 1 cm (Varies depending on the application surface.)

Caution: Avoid application in temperatures below +5°C and above +35°C. If possible carry out the application without breaks, otherwise divide the surface in sections of 20 m2 and apply separately on each section. 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 about 1 week following the application. Never attempt to extend the expired mortar by adding powder and water. The values mentioned above are obtained at 23±2ºC and 50±5 relative humidity conditions.

Packaging: 35 kg craft bags

Shelf Life: Unopened packages can be stored in dry environments for up to 12 months, stacked maximum 8 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 powder
Powder Density	: ~1.20 kg/lt
Water Mixing Rate	: 8.5 – 9.5 lt water / 35 kg powder
Resting Period	: 5 - 10 minutes
Pot Life	: 1.5 - 2 hours
Application Temperature	: Between +5°C and +35°C
Application Thickness	: Minimum 1 cm, Maximum 3 cm
Heat Conductivity Coefficient	: 0.26 w/mK
Full Drying Time	: 12 - 24 hours
Service Temperature	: -20°C / +80°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.