

POMEX THERMAL INSULATION PLASTER



Plaster Mortar for Thermal Insulation Boards

Description

Render used for plastering cement-based, polymer, and fiber-reinforced thermal insulation boards.

TS EN 13687

Areas of Usage

It is used for plastering the surfaces of extruded and expanded polystyrene, rock wool, glass wool, and similar panels used for exterior thermal insulation in buildings.

Features of Product

- * Provides excellent adhesion.
- * Easy to prepare and apply.
- * Has a long processing time.
- * Can be directly painted over.
- * Prevents condensation with high water vapor permeability, allowing the system to breathe.
- * Does not crack due to fiber additives.

Application Procedure

Surface Preparation

The surfaces of the panels to be applied must be securely adhered, dry, and clean.

Mixing

The appropriate amount of water is poured into a clean mixing container using a measuring cup. **POMEX THERMAL INSULATION PLASTER** is slowly added. It is mixed with a low-speed mixer for 3 - 5 minutes until a homogeneous mixture is obtained. After resting for 5-10 minutes, the material is ready for use after being mixed again for 20-30 seconds.

Mixture ratio

For 25 kg of powder: 5.5-6.5 liters of water

For 1 kg of powder: 0.220-0.260 liters of water

Application Method

Thermal insulation panels are adhered using **POMEX Thermal Insulation Board Adhesive** or **eile PLY 2100**. A layer of plaster mortar is then applied over the panels. Next, a mesh is embedded into the first layer of plaster. Afterward, a second layer of plaster is applied. If a smooth surface is desired, it can be smoothed with a wet sponge. Once the insulation board plaster has cured, any desired coating material can be applied in the preferred color and appearance.

Points to Consider

- * During the application of POMEX Thermal Insulation Plaster, suitable temperatures should be maintained, ideally between +5°C and +30°C.
- * Avoid application in extreme heat, rainy, or windy conditions.
- * The application thickness should be between 3mm and 4mm.
- * Do not add water or new material to the mixture that has developed a crust inside the container.
- * Avoid application on surfaces that are frozen, thawing, or at risk of freezing within 24 hours.
- * The prepared mixture should be used within 120 minutes at 20°C.

Cleaning of Tools

Tools and equipment used for application should be cleaned with water after use. **POMEX Thermal Insulation Plaster** can only be mechanically removed from surfaces after hardening.

Packaging

Kraft sack of 25 kg

Storage: Unopened original packaging should be stored in a cool, dry place and stacked no more than 10 bags high.

Shelf Life: Under specified storage conditions and in unopened packaging, the shelf life is 12 months from the production date.

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Technical Specifications

Structure of the material: Mineral fillings, special additives and cement.

Color: Grey

Application temperature: +5 °C /+30 °C

Application thickness: min:3mm/max:4mm

Pot Life: 2 hours (20 °C)

Consumption: 1.25-1.5 kg/ m² (for 1 mm)

Maturation : 5-10 minutes

Adherence strength to the thermal insulating board:

≥ 0.08 N/mm²

Compressive strength: ≥ 6 N/mm²

Bending strength: ≥ 2 N/mm²

Usage period: 120 minutes (20 °C)

The typical values above are valid for the performances of the applications 28 days after their finish at +23°C for 50% relative humidity. The values might change due to the differences in the worksite environment.

Safety Recommendations: During application, appropriate workwear, protective gloves, goggles, and masks in accordance with occupational health and safety regulations must be worn. Avoid contact with skin and eyes; if contact occurs, wash thoroughly with plenty of water. In case of ingestion, seek medical attention immediately. Store out of the reach of children. No food or drink should be kept in the areas where the application is taking place.

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