

# POMEX THERMOMEX PLASTER



## Thermal, Sound and Fire Insulating Mortar

### Description

It is a cement based multi-purpose insulating mortar material which provides thermal, sound and fire insulation breathing on the application surface thanks to the natural and light porous aggregation.

**Certified to TS EN 998-1 TSE and EN 998-1 CE Documents.**

**Ministry of Environment and Urban Planning Pos. No: 04.484**

### Areas of Usage

It is used in place of rough cast on the surfaces such as brick-gas concrete and concrete-pumice blocks in the internal and external surfaces of buildings.

### Features of Product

- \*It provides thermal, sound and fire insulation through one product.
- \*It contributes to the budget in heating-cooling expenditures.
- \*It does not put extra burden on the building since it is very light.
- \*It does not require extra labor since it is applied as single layer.
- \*It does not let the formation of thermal bridges since it does not form interlayers.
- \*It does not include harmful chemicals (carcinogen materials) for the human and environmental health since it is an inorganic based material.
- \*It forms fire barriers.
- \*It breaths.
- \*It increases the value of the buildings.
- \*It provides sound proof thanks to its cellular structure.

### Application Procedure

#### Surface Preparation

The application surface is cleaned from dust, oil, paint and stains. The loose parts are removed mechanically until getting the solid ground. The absorbent and slippery surfaces should be primed with **eile TU-05**. The strips that would determine the thickness of applied **POMEX THERMOMEX PLASTER** are fixed on the walls with the proper intervals to form plaster strips.

### Mixing

In order to get the best performance and the homogeneity of **POMEX THERMOMEX PLASTER**, the package is used at once. The whole package of **POMEX THERMOMEX PLASTER** is slowly added into water at a ratio of 1:1. It is mixed with a low speed mixer for 4 - 5 minutes until obtaining a homogenous mixture. The mixture waits for 5 minutes in the mixing bowl and mixed again for 30 seconds to get it ready for use.

### Mixture Ratio

approximately 16 liters of water for 16 kg powder

### Application

The homogeneous mixture is applied as a single layer among the bars using a steel trowel or plaster pump; and then is coated. When the pre-draining is over, the plaster strips are removed and filled with **POMEX THERMOMEX PLASTER**. If the product starts to set due to delays, it should be mixed for a few minutes.

### Points to take into consideration

- \* For **POMEX THERMOMEX PLASTER** application, if the ambient temperature is below +5°C or above +30°C, the suitable conditions should be met. Extremely hot, rainy or windy weather is not suitable for application.
- \* The mixture starting to dry should not be mixed with water and new material.
- \* The material should not be applied thicker than 3 cm. If necessary, the second layer is applied using a plaster mesh.
- \* The applications to be made on **POMEX THERMOMEX PLASTER** should start at least 3 days later. The **POMEX THERMOMEX PLASTER** surface must be watered once in 24 hours interval or should be coated with **eile PRIMER E** 1 day after the application.
- \* For the applications on exposed concrete surface, the application floor must be primed with **TU-05** or **TU-06** to increase the adherence of plaster mortar to the surface.
- \* **POMEX THERMOMEX PLASTER** should be applied on very porous surfaces after **eile COAT E** application.



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## Technical Specifications

**Structure of the material:** It contains polymer and fiber reinforced special cement as well as expanded filling with special gradation.

**Color** : Grey/White

**Application Temperature:** +5 °C/+30 °C

**Fire reaction** : Class A 1

**Bond resistance** :  $\geq 0.15 \text{ N/mm}^2$

**Water Absorbency during Capillary Effects:** W1

**Compressive resistance** : CS II

**Thermal conductivity** : Class T 1 ((0,065 W/mK)

**Water Vapor Permeability:**  $\leq 15 \text{ kg/m}^2 \cdot \text{s} \cdot \text{Pa}$

**Hollow Dry Bulk Density:**  $400 \pm 50 \text{ kg/m}^3$

**Consumption** : 4 -5 Kg /m<sup>2</sup> powder for 1 cm

**Application Type** : Steel Trowel-Plastering Machine

**Test Drying** : 28 days (23 °C )

**Ready within** : 2-3 days (23 °C )

**Pot life** : 120 minutes (23 °C )

**Sound absorbency** 17.2 dB

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.

## Cleaning of Tools

The tools and equipment used during the application should be cleaned with water. **POMEX Thermomex PLASTER** can be removed only mechanically after it hardens.

## Packaging

Kraft sack of 16 kg

**Safety Recommendations:** Please wear the coveralls, protective gloves, glasses and mask suitable for occupational health and safety. Make sure that it does not contact the skin and the eyes; in case it does, wash with plenty of water. In case swallowed, contact the closest health care institution immediately. Keep out of the reach of children. Keep food and drinks away from the application areas.

**Responsibility:** In case the recommendations and application conditions specified above are not conformed, the applications (misuse) do not fall under the responsibility of **POMZA EXPORT A.Ş., the producer of eile POMEX branded products.** The user is responsible for whether the product is used in accordance with its purpose, as well as the validity of application conditions and forms. **eile Pomex Construction Chemicals** does not accept any indemnity claim concerning the results, work accidents, direct or indirect damages or losses due to the misapplication of the products.

**Note:** **eile POMEX** reserves the right to improve/revise the product and this technical document over time. This Technical Data Sheet supersedes the former Technical Data Sheet released for this product. The user must make sure that the available technical document is the latest updated version. If necessary, our company must be contacted to inquire the updating status of the document. AUGUST 2014

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12 TS EN 998-1
Water Absorbency during Capillary Effects: W1 Bond resistance: $\geq 0,15 \text{ N/mm}^2$ Water Vapor Permeability: $\leq 15 \text{ kg/m}^2 \cdot \text{s} \cdot \text{Pa}$ Compressive resistance: CSII Thermal conductivity factor: T1 sınıfı Fire reaction class: Class A 1

**Storage:** Best stored in cool and dry place in their unopened package with a maximum 10-fold stacking.

**Shelf Life:** 12 months following the production date under the specified storage conditions and in unopened package.



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