

POMEX THERMOMEX PLASTER



Thermal, Sound, and Fire Insulating Render

Description

It is a cement-based, multi-purpose insulation material in lightweight render form that provides thermal, sound, and fire insulation. It provides a breathable surface as it has expanded perlite in its mixture.

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

Areas of Usage

It is used in place of rough plaster on the surfaces such as aerated concrete, lightweight concrete block, concrete and concrete-pumice blocks in the internal and external surfaces of buildings.

Features of Product

- * Provides thermal, sound, and fire insulation with a single product due to its porous structure.
- *Contributes to the budget in heating and cooling expenses.
- *Being lightweight, it does not impose additional load on the structure.
- *Since it is applied in a single layer, it does not require extra labour.
- *Does not allow the formation of thermal bridges as it does not create intermediate layers.
- *As an inorganic material, it does not contain harmful chemicals to the environment and human health (non-carcinogenic).
- *Forms a fire barrier.
- *Breathable.
- *Increases the value of buildings.

Application Procedure

Surface Preparation

The application surface is cleaned from dust, oil, paint and stains. All the loose particles should be removed until a solid ground is reached.

The absorbent and slippery surfaces should be primed with **eile TU-05**. The metal studs that would determine the thickness of applied **THERMOMEX PLASTER** are fixed on the walls with proper intervals.

Mixing

To ensure homogeneous mixing of **POMEX THERMOMEX PLASTER** and to achieve optimal product performance, the entire package should be used at once.

POMEX THERMOMEX PLASTER is slowly added to water in approximately a 1:1 ratio and mixed with a low-speed mixer for 4-5 minutes until a homogeneous mixture is obtained. After resting for about 5 minutes, the material is stirred again for 30 seconds to prepare it for application.

Mixture Ratio

For 16 kg powder, approximately 16 litres of water

Application

For old and new buildings, **THERMOMEX** is horizontally applied to concrete surfaces by making 5-6 mm lines with a notched trowel. The desired thickness of plaster (2/2.5cm) is applied between the metal studs with a steel trowel or machine and levelled with a straight edge the next day.

For new buildings, **THERMOMEX** is applied between the metal studs in a single layer with a maximum thickness of 2 cm using a trowel or plaster pump and levelled with a straight edge.

For thicker applications, it should be waited until the first layer achieves the required hardness. Then, the surface is moistened, and the application is repeated to achieve a thickness of 2 cm and levelled again. This process is repeated until the required thickness is reached. After the material has dried, the metal studs are removed, and the gaps are filled with **THERMOMEX**.

If the product begins to set due to delays during application, it should be stirred for a few minutes.

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Important Points

- * Application should not be done in extremely hot, rainy, or windy weather. For **THERMOMEX** application, if the ambient temperature is below +5°C or above +30°C, the suitable conditions should be waited.
- * Water and new material should not be added to the mixture that has started to dry.
- * The applications to be made on **THERMOMEX** should start at least 3 days later. The 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 adhesion of the plaster mortar to the surface.
- * On very porous surfaces, after **eile COAT E** application **THERMOMEX** should be applied.

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	: ≥ 0.15 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:	≤ 15 kg/m ² .s.Pa
Hollow Dry Bulk Density:	400 \pm 50 kg/m ³
Consumption	: 4 -5 Kg /m ² 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.

POMZA EKSPORT MADENCİLİK SANAYİ VE TİCARET A.Ş MENDERES -İZMİR/TÜRKİYE	
24 SV 1	
TS EN 998-1	
THERMOMEX PLASTER	T CLASS
Dry bulk density	450 \pm 200
Compressive strength	CSII
Cohesion strength	0,10N/mm ²
Capillary water absorption	W1
Water vapor permeability	≤ 15
Thermal conductivity	T 1 $\leq 0,10$
Fire reaction	A1

Cleaning of Tools

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

Packaging

16 kg Kraft Bag

Storage: Unopened original packaging should be stored stacked up to a maximum of 10 layers in a cool and dry environment.

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

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.

Liability: **POMZA EXPORT A.Ş.**, the producer of **eile POMEX**-branded products, cannot be held responsible for any improper applications (misuse) due to non-compliance with the above-mentioned recommendations and application conditions. It is the responsibility of the applicator to ensure that the product is used according to its intended purpose and that the application conditions and methods are valid. **eile POMEX** Construction Chemicals does not accept any claims for compensation arising from failure to apply the products as recommended, work-related accidents, or any direct or indirect damages.

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