

Thermal, Sound and Fire Insulated Screed

Description

It is a cement-based lightweight mortar material that provides thermal, acoustic, and fire insulation on the applied surface. It provides a breathable surface as it has expended perlite in its mixture.

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

Areas of usage

It is a screed material used under coating, instead of rough plaster, in order to provide thermal, sound and fire insulation on both exterior and interior walls, floors, open roofs and terraces.

Features of the 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**. If application is to be done on plastered or painted surfaces, the surface should be roughened using the scraping method or by applying **eile TU-05**. The metal studs that would determine the thickness of applied **THERMOMEX PLASTER** are fixed on the walls with proper intervals.

Mixing

The entire 25 kg bag of **THERMOMEX SCREED** should be used for preparing the mixture.

THERMOMEX SCREED is slowly added to the appropriate amount of water 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

Approximately 16-17 liters of water for 25 kg powder

Application

The prepared **THERMOMEX SCREED** is applied between the studs using a trowel or a plaster pump and leveled. After the material has reached its initial set, the studs are removed, and any gaps are filled with **THERMOMEX SCREED**.

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

Important Points

- * Application should not be done in extremely hot, rainy, or windy weather. For **THERMOMEX SCREED** application, if the ambient temperature is below +5°C or above +30°C, the suitable conditions should be waited.
- * The application thickness of **THERMOMEX SCREED** should be at least 3 cm. Under no circumstances should water or additional material be added to the mixture once it has started to dry.
- *A waiting period of at least three days is required for any further applications on **THERMOMEX**
- * Prior to the application of levelling mortar, ceramic tiles, or similar finishes on **THERMOMEX SCREED**, the surface's water absorption should be checked using **eile ASTAR E** product. If necessary, **eile ASTAR E** should be applied in two coats.

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.

POMEX THERMOMEX SCREED



Packaging

25 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.

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

Application Type : Screed Machine- Steel Trowel

Ready within : 3-7 days (23 °C)

Usage Time : 120 minutes (23 °C)

Dry bulk density : 600 ±50 kg /m³

Consumption : 6-7.5 kg /m² powder for 1 cm

Test Drying : 28 days(23 °C)

Sound absorbance : 20 dB

Pressure strength : ≥ 5 N/mm²

Bond strength : ≥ 0.5 N/mm²

Thermal conductivity : 0.09 W/mK

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

CE	
POMZA EKSPORT MADENCİLİK SANAYİ VE TİCARET A.Ş. MENDERES -İZMİR/TÜRKİYE	
24 SV 7	
TS EN 998-1	
THERMOMEX SCREED	T SINIFI
Dry bulk density	650±200
Pressure strength	CSII
Bond strength	≥0,10N/mm ²
Water absorption during capillary effects	W1
Water vapor permeability	≤15
Reaction to fire	A1

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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