



Thermal, Acoustic, and Fire Insulation Plaster



## DESCRIPTION:

It is a cement-based, multi-purpose fire insulation plaster that provides Thermal, and fire insulation in the area where it is applied, thanks to the natural lightweight aggregates with a porous structure in its mixture.

## REFERENCE STANDARD:

\*TS EN 998-1 / TS EN 13501-1

\*CE

\*F60

## ADVANTAGES:

\*Due to its lightness, it does not put extra load on the structure.

\*Provides heat, sound and fire insulation with a single product.

\*As it is an inorganic-based material, it does not contain chemicals harmful to the environment and human health.

\*Creates a fire barrier.

\*Increases the value of buildings.

\*It has an active capillary structure.

\*Provides sound (acoustic) insulation due to its porous structure.

\*It allows surfaces to breathe thanks to its high water vapor permeability. \*Thanks to its fiber-reinforced structure, it is resistant to external effects and protects the building for many years. \* It has high resistance to water and freezing. \* It has a natural and decorative appearance. It is easy to apply. \* Prevents moisture and mold formation.

## USAGE AREAS:

It is applied as heat, sound and fire insulation plaster on surfaces such as brick, aerated concrete, pumice block and concrete on the exterior and interior facades of buildings. Protects steel structures against fire.

Please consult us for all other application surfaces.

## SURFACE PREPARATION:

Dust, oil, paint and impurities on the application surface must be removed. The surface must be solid and clean. Loose parts are cleaned mechanically until they reach solid ground. In old buildings, after the existing plaster is roughened by the notching method, the surface should be primed with Betonite Primer Exto and/or a flexible ceramic adhesive and mortar should be applied horizontally to the application surface with a 6 mm comb. . Absorbent, slippery and concrete surfaces in new buildings should be primed with Betonite Primer BBA. Mineral surfaces must be moistened before application, and it should not be applied in very hot and windy weather. It is applied on steel structures by trowel or spraying method.

## APPLICATION CONDITIONS:

Ambient temperature should be between +5 °C and +30 °C. Application in very humid and/or very hot weather and under the sun should be avoided. It should not be applied on surfaces that are frozen, melting or in danger of freezing within 24 hours.

## APPLICATION:

The 16 kg TERRAPER Thermal, Acoustic and Fire Insulation Plaster bag should be slowly added to approximately 13 - 14 liters of clean water. TERRAPER Thermal, Acoustic and Fire Insulation Plaster should be mixed with a low-speed hand mixer for 3-4 minutes until it reaches a homogeneous consistency. The mortar should be left to rest for 5 minutes before application and then mixed again. TERRAPER Thermal, Acoustic and Fire Insulation Plaster is applied between the slats with a steel trowel or plaster pump in a maximum thickness of 3 - 4 cm and leveled. Anos; After the preliminary shrinkage of the material is completed, it is removed and the gaps are filled with TERRAPER Thermal, Acoustic and Fire Insulation Plaster.

\*Never add water or new ingredients to the mixture that has started to dry.

\*Application thickness should not exceed 3-4 cm on the first coat. It is recommended to use plaster mesh in thicker applications. The application surface should be moistened in hot and windy weather. You should wait at least 2 days before starting another application on TERRAPER Thermal, Acoustic and Fire Insulation Plaster.

## APPLICATION TOOLS:

Steel trowel, plaster trowel, trowel, plaster pump, gauge, anos.

## CONSUMPTION:

1 cm thick: 4.5 – 5 kg/ m<sup>2</sup>

## TECHNICAL SPECIFICATIONS

Conforms to Standards; TS EN 998-1 / TS EN 13501-1

Capillary Water Absorption: W1

Bond Strength:  $\geq 0.20$  N/mm

Water Vapor Permeability:  $\leq 15$  kg/m<sup>2</sup>.s.Pa

Compressive Strength: CSII

Bulk Density: Loose: 425-450 kg / m<sup>3</sup>

Application Temperature: +8 °C to +35 °C

Thermal Conductivity Coefficient: T1 class

Reaction to fire class: Class A1

Pot Life: 1 hour

## STORAGE:

Packaging Information: 16 kg Kraft bag, pallet: 40 bags / 640 kg

Shelf Life: The product is 1 year from the production date, provided that the packages are not opened in dry and cool environments. Maximum 2 pallets are stacked in the original packaging. The mouth of the containers should be tightly closed when not in use.

## SAFETY WARNINGS:

Use appropriate safety equipment (dust mask, gloves). Protect your eyes/face. • Avoid contact with eyes and skin. • In case of contact with eyes, rinse immediately with plenty of water and consult a specialist. • For detailed safety information, please read the Material Safety Data Sheet.

## LEGAL WARNING:

Our company is not responsible for any application errors that may occur if the product is used for purposes other than its intended purpose or if the above-mentioned technical application conditions and recommendations are not followed. The data in this technical sheet includes the information on the date it was written. It produces. The manufacturer reserves the right to change them.