

Thermslab Premium

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Thermslab Premium is a natural mortar, with graphene technology, for thermal flooring of building, rehabilitation, resortation of Listed Properties.

PRODUCT DESCRIPTION

Features:

- High thermal conductivity.
- Highly breathable. Avoids condensation.
- Excellent flexibility and adhesion.
- Tough and long-lasting.
- Low water absorption.
- Good workability.
- Absorbs CO₂.
- Contains high quality lime and graphene fibres.
- Suitable for interiors and exteriors.
- Free of VOCs and formaldehyde emissions.

Technical properties:

Apparent density		
· Fresh	EN 1015-6	2200 ± 100 kg/m ³
· Hardened	EN 1015-10	200 ± 100 kg/m ³
Compression strength	EN 1015-11	CS II
Adhesion	EN 1015-12	≥ 0.15 N/mm ²
Capillary water absorption	EN 1015-18	W 2
Coefficient of water vapor permeability	EN 1015-19	≤ 15 μ
Reaction to fire	EN 13501-1	A1
Thermal conductivity (λ _{10, dry})	EN 1745	1.18 W/m·K (Tabulated value)
Natural Color	-	Grayish-White

Yield:

100 kg/m² for 4 cm on a level substrate. It depends on the type and condition of the substrate. The exact consumption must be determined by the means of a sampling of the work.

Format:

Pots of 21 kg.

Storage:

Keep in original pack, closed and in a cool and dry place. Keep from freezing and avoid direct sun exposure. Unopened, it may be conserved for at least 12 months from the date of manufacture.

APPLICATION INSTRUCTION

Application surfaces:

Absorbent flooring.

Conditions of the substrates:

The substrate must be dry, firm, well adhered, free of any impurity and must have a grip to ensure the adhesion of the product.

Preparation of the substrates:

If the substrate presents algae, mold, fungi and / or other impurities, it is recommended to do a thorough cleaning, eliminating in its entirety and with specific products for this purpose.

If the substrate presents pathology such as structural cracks, moisture by capillarity, condensation or filtration, etc.; then it is necessary to resolve the structural problems first.

Product preparation:

Mix well with electrical kneader or mechanically to ensure an even consistency

Application method:

Apply the mix until reaching the point marked. Vibrate manually or with a vibrating machine to set the mix. Apply, even out until the point marked and vi-brate again. Remove excess of material.

Thickness of the work: 4-8 cm per day

Drying:

In conditions of 25 °C and 60% relative humidity: 7 days for finishing mortar application.

The physical and chemical hardening (carbonation process) mainly occurs during the first 30 days.

Environmental conditions:

The work temperature (environment and support) must be greater than +5 °C and less than +30 °C. Do not apply in direct sunlight, strong winds, rain, freezing or on supports heated by the sun.

Tools:

Palette, vibrating machine (optional).

Tool cleaning:

Clean tools after use with warm water.

Notes:

Do not drench the substrate before application, only lightly moisten if very dry.

Careful not to add too much water into the mix.

Do not water for hardening, it hardens by absorbing atmospheric CO₂.

Do not apply to surfaces in constant contact with water.

In case of rain, let the substrate dry before applying.

It is recommended to protect the treated surface from rain for at least 4 days.

The parts that are not going to be treated must be protected (glass, wood, etc.).

Do not mix with other products or specific properties may change.

Complementary products:

It is recommended to use the *Graphenstone®* product line for complementary actions, according to the required application, repair and/or finish. Please, refer to the relevant Technical Data Sheets.

DECLARATIONS

The manufacturer declares that the composition of the product, it does not contain hazardous substances and it is free of VOC emissions.

For more information visit our website:
<http://graphenstone.com/Graphenstone-Global-Certificados.html>

ADDITIONAL INFORMATION

Usage warnings:

None in particular for normal use and people who do not have special pathologies. Alkaline product, protect skin and eyes especially. Apply with good ventilation, do not inhale product. Keep out of reach of children.

Waste management:

According to local legal provisions. The packages are made of recycled polypropylene. Help protect the environment, do not throw waste through the drain and use the nearest recycling centre.

Responsible gesture:

Minimize the mortar waste by estimating the amount you will need. Recover the unused mortar to give it a new use before 2 months, keep it under the Storage section.

Safety information:

For information regarding safety, physical, ecological and toxicological information see the latest version of the product's Material Safety Data Sheet.

Technical support:

For further information, please contact with local distributor or manufacture:
technicalsupport@graphenstone.com

The information provided is given in good faith, based on current knowledge and IEdiSA's experience with the products when they are properly stored, handled and applied in normal situations and in accordance with the recommendations of IEdiSA. The Technical Specifications sheet is useful for information and consulting, but is not legally binding. In particular, it does not exempt the user from testing and verifying the suitability of the product for the desired application and purpose. IEdiSA reserves the right to modifications that improve the product or its application. This version invalidates previous ones.