



Thermslab Premium

Version: feb-17

Thermslab Premium is a natural mortar, with graphene, for thermal flooring.

PRODUCT DESCRIPTION

Where to apply:

Ideal for underfloor heating.

Features:

High thermal conductivity.
 Excellent flexibility and adhesion.
 Low water absorption.
 Good workability.
 Absorbs CO₂.
 Contains high quality lime and graphene.
 Antibacterial/anti-mould effect.
 Insect repellent.
 Breathable. Avoids condensation.
 Tough and long-lasting.
 Suitable for interiors and exteriors.
 Free of VOCs and formaldehyde emissions.

Components:

Rich aerated lime*, selected aggregates, graphene fibre, natural additives. Complies with the requirements of the standard DIN 18363 ($\leq 5\%$ of organic content).

**Derived from CL90-quality limestone and artisanal production recognised by UNESCO as Intangible Cultural Heritage of Humanity.*

Yield:

For a thickness of 4 cm, it uses 100 kg/m².

Format:

Available in 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.

Technical properties:

Apparent density:

· Fresh EN 1015-6 2200 kg/m³

· Hardened EN 1015-10 2000 kg/m³

Compression strength EN 1015-11 3.22 N/mm²

Adhesion - ≥ 0.15 N/mm²

Capillary water absorption EN 1015-18 $c \leq 0.20$ kg/m²·min^{0.5}

Reaction to fire EN 13501-1 A1

Thermal conductivity (λ10, dry) EN 1745 1.18 W/m·K
(*Tabulado value*)

Colour Lead grey

APPLICATION INSTRUCTIONS

Conditions of the substrate:

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

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 vibrate again. Remove excess of material.

Working thickness: 4-8 cm.

Drying:



In conditions of 25 °C and 60% relative humidity, allow 7 days to pass before applying finishing mortar.

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 wet new mortar in order to harden it; it hardens by absorbing atmospheric CO₂.

The indicated times are for environmental conditions of 25 °C and 60% relative humidity.

Do not apply to surfaces in constant contact with water.

In case of rain, let the substrate dry for at least 48 hours before applying.

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

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

DECLARATIONS

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

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.

Safety information:

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

Technical substrate:

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



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