



THERMO WALL

THERMAL INSULATING PLASTER

DATA SHEET UPDATED 05/11/2024

Product information

SUPRIMO THERMO WALL is a versatile thermal insulating plaster with a mixed binder and glass sphere filler, designed to enhance the thermal insulation of external walls, and level surfaces, and create a decorative "pebble" texture layer for finishing, while its low average density ensures excellent thermal insulation, high vapor permeability facilitates moisture removal, and low modulus of elasticity provides durability and crack resistance for both manual and mechanized application on low-strength substrates.

- + Vapor permeable
- + Resistance grade M25
- + Frost resistance F50
- + For indoor and outdoor use
- + Water 0.48-0.50 L
- + Thermal conductivity coefficient 0,092 W/(m·°C) - 0,108 W/(m·°C)

Recommended uses

- Concrete
- Ceramic masonry, silicate and expanded clay concrete products, cellular concrete blocks
- Cement and cement-lime stucco.
- Vertical surfaces and ceilings.
- For new and used buildings and structures (exterior walls, balcony slabs, pitches, stair walls)

Coverage

0,40-0,45 kg/m²* 1 mm

Application instructions

Surface preparation

The base must be strong, stable, dry, level, and free from ice (frost) as well as biological damage, efflorescence, dust, lime, oils (including formwork oils), grease, paint residues, cement (or gypsum) milk, and other contaminants that could reduce adhesion. The base should be primed.

Product preparation

Gradually add the dry mixture to clean, impurity-free water (temperature +10 to +25 °C) and mix thoroughly with a mixer for 3 minutes until a homogeneous, lump-free consistency is achieved. Allow the mixture to sit for 5 minutes, then mix again before use.

Application

Levelling Layer:

Apply a plaster layer 3–5 mm thick and rub it into the base with a metal float to create a contact layer. After approximately 20–30 minutes, apply a second layer of plaster 4–15 mm thick by evenly applying it with a trowel. Level the plaster with a rule along the beacons. If needed, apply additional

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layers on top of the previous ones once they have been set, with an approximate setting time of 3–4 hours. Reinforce every 40 mm of the plaster layer with a metal mesh fixed to the base.

Decorative Layer with "Pebble" Texture:

Approximately 1–2 days after applying the leveling layer, apply a plaster layer 3–5 mm thick and create the texture using circular motions with a plastic float. The timing for grouting is empirical; ensure the plaster surface does not dry out. The total thickness of the plaster layer should be at least 10 mm.

Important Notes

1. The residual moisture content of the base should be no more than concrete - 6%, cement - 8%, and aerated concrete - 20%.
2. Natural variations in the shade of plaster due to raw material differences are acceptable and do not affect the plaster's performance.
3. Using water at temperatures higher than recommended may impair the working properties of the mortar, reduce technical performance, and cause defects.
4. Install beacons using plastic or metal clips secured with screws. Remove the beacons and fasteners 8–12 hours after applying the plaster and fill the resulting gaps with the same plaster mixture.
5. For a uniform texture, work continuously within one area using material of consistent consistency from the same batch. To avoid texture differences, have one specialist handle the surface.
6. Do not wet the surface with water during rubbing.
7. Protect the surface from direct sunlight, temperature changes, drafts, precipitation, and other adverse environmental conditions while the mortar is setting.
8. Cover scaffolding with a special mesh or film and install gutters on the building to protect the facade.
9. Paint the plastered facade with materials having a vapor permeability coefficient of at least 0.015 mg/ (m h Pa).
10. Follow the paint and varnish manufacturers' recommendations for timing of further work (painting, puttying), and ensure the mortar has dried and set for at least 7 days to prevent defects such as efflorescence, peeling, and reduced quality of the finishing coating.
11. Drying time and strength gain of the mortar depend on the layer thickness and environmental conditions.

Technical product data

Color	White
Water Required for 9 kg	3.87–3.96 liters
Water Required for 1 kg	0.43–0.44 liters

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Working Time	2 hours
Estimated consumption	0.40 - 0.45 kg/m ² per 1 mm thickness
Maximum Layer Thickness	Up to 20 mm
Strength grade	M40
Adhesion	Minimum 0.4 MPa
Frost resistance	At least 50 cycles
The vapor permeability coefficient of the coating	0.15 mg/(m·h·Pa)
Thermal Conductivity Coefficient	Dry Condition: 0.092 W/(m·°C) Under Conditions B: 0.108 W/(m·°C)
Elastic modulus	650 MPa
Flammability	Non-Combustible (NG)
Application Temperature Range	+5 to +25 °C
Operating Temperature Range	-30 to +70 °C
Packaging / Quantity on pallet / Pallet weight	9 kg / 42 pcs / 378 kg

Warning

You should use personal protective equipment for breathing, skin, and eyes when using the composition. In case of contact with eyes, rinse immediately with water and seek medical help. Observe additional fire safety measures not required.

Storage

The product is guaranteed in its original packaging, in standard conditions (+5 °C +35 °C or +41 °F to +95 °F), for 12 months from the date of production. Keeping the product in dry conditions is important, away from heat sources and direct sunlight.

Disclaimer

The information described in this Technical Data Sheet is based on our decades-long experience but is indicative. Therefore, the user must evaluate if the product is suitable for its specific application and assume responsibility for its use.