

Polystyrene Sheet Plaster



Product Overview

CLASS THERMAL SV is a high-performance plastering mortar that is cement-based, single-component, polymer-modified, and fiber-reinforced. It is specifically designed for application as a plaster layer over thermal insulation boards and is resistant to shrinkage and cracking.



Application Domains

- Indoor and outdoor
- On the walls and ceilings
- Horizontal and vertical

It is utilized in the application of thermal insulation panels.



Technical Specifications

Intensity	1,63 kg/lit (± 0,05)
Colour	White and Gray
Water Mixing Ratio	5-6 liters of water for 20 kilograms of powder.
Rest	5-10 dk
Working Hours	1.5-2 seconds
Crust Formation Duration	20 Dk
Ambient Ground Temperature	+5 °C, +30 °C
Application thickness	3-5 mm
Adhesion strength (to the substrate)	≥0,65 N/mm ²
Peel resistance	22 N/mm ²
Flexural strength	≥4 N/mm ²
Compressive strength	≥18N/mm ²
Thermal Conductivity	0,54 W/m.k

The information presented in this technical data sheet is derived from experimental results. The responsibility for the proper application of our original product rests with the user. Our company is solely accountable for the product's quality. This data sheet supersedes the information provided in the previous version. Our company reserves the right to amend any information contained within this data sheet.



Advantages

- It is adaptable.
- It is straightforward to prepare and execute.
- It offers user-friendly functionality.
- It exhibits resistance to thermal shocks.
- Fireproof.
- It exhibits exceptional adhesion performance.
- It remains unaffected by fluctuations in temperature.
- Paint can be applied directly onto it.



Surface Preparation

The application surface and panels must be intact and devoid of adhesion-inhibiting substances such as dust, oil, paint, silicone, curing agents, detergents, and similar materials. The panels designated for plastering must be securely anchored and firmly positioned. Any gaps between the panels should be filled with foam or the same material. A minimum of 48 hours must elapse after the panels are adhered to the wall.



Mixture

20 kg of CLASS THERMAL SV powder is combined with 5-6 liters of clean water and mixed for 3-4 minutes using a low-speed mixer or drill until the mixture is homogeneous and free of lumps. This blend is allowed to rest for 5-10 minutes to mature, after which it should be mixed again for 1-2 minutes. It is advisable to use the mixture within 1.5-2 hours.

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Application Details

CLASS THERMAL SV is applied as an initial coat with a thickness of 2-3 mm using a steel trowel on the pre-glued and doweled panels. While the plaster remains wet, CLASS Reinforcement Mesh is positioned from top to bottom and embedded within the fresh mortar. To mitigate cracking, CLASS Reinforcement Mesh should be applied with a 10 cm overlap at the joints. At corners and around all beams, as well as window and door frames, CLASS Reinforcement Mesh must be wrapped at least 20 cm. The second coat may be applied after 3-4 hours. This subsequent layer of plaster should also be 2-3 mm thick, and the surface must be moistened prior to application. Depending on weather conditions, it is essential to ensure that the first coat has not yet set to avoid the formation of cold joints. Following application, the surface will be prepared for exterior cladding. Sponge brushes compromise the adhesion of the surface and may lead to dusting; therefore, their use is discouraged. If direct painting is intended, a waiting period of 2-3 days is necessary, contingent upon weather conditions. In high-rise buildings exposed to wind loads and elevated temperatures, humidification should be performed, and scaffolding may require shielding.



Consumption

4 - 5 Kg/m²



PACKAGING

20 kg Kraft Bag



Shelf life

In its unopened packaging, it can be stored for 12 months in a cool, dry location, shielded from sunlight, at temperatures ranging from +10°C to +25°C.



Attention

Avoid applications when the ambient temperature is below +5°C or above +30°C. Do not apply in direct sunlight, rain, or wind. Refrain from applying on surfaces that have been exposed to sunlight for extended periods, are frozen, or are at risk of freezing within 24 hours.

R10: Keep away from children.

R20/22: Harmful if inhaled or ingested.

R52/53: Toxic to aquatic life; may result in long-term detrimental effects in the aquatic ecosystem.

R65: Harmful. May result in lung damage if ingested.

S7: Store in a securely sealed container.

S24/25: Avoid contact with eyes and skin. S28: In the event of skin contact, rinse immediately with ample water.

S29: Do not release into the sewage system.

S46: If ingested, seek medical attention promptly and present the container or label.

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