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THERMOPLAST

Base Render for EIFS Thermal Insulation System

Description

THERMOPLAST is a premium grade, polymer modified water resistance render for external insulation finishing system (EIFS). It provides excellent adhesion and finishing when used with rock wool, expanded or extruded polystyrene insulation boards.

THERMOPLAST consists of hydraulic cement, synthetic polymer, fiber reinforcement, silica sand and special chemical additives. The applied material will provide excellent crack-free, impact resistance reinforcing coat for embedding glass fiber mesh in EIFS/ ETICS thermal insulation systems.

Features & Benefits

- Single component, easy to apply
- Quality controlled, ready-mix
- Excellent adhesion to polystyrene, rock wool, block, plaster and concrete substrates.
- Can be finished with any topcoats such as paint, textures, stone finish…etc.
- Excellent mechanical and impact resistance
- Weather and water resistance.
- Eco-Friendly
- Durable

Uses

THERMOPLAST can be used as plaster coat for thermal insulation systems. It provides excellent base coat for embedding glass fiber mesh on the following insulation boards:

- Expanded Polystyrene boards,
- Extruded Polystyrene boards.
- Mineral Wool sheets (MW)

Technical Properties

Appearance	Cementitious Powder
Color	Grey
Mix Density	1,850 Kg/m^3 approx.
Mix Pot Life	60 minutes
Open Time	25 minutes @ 25°C
Adhesion to EPS	0.5 N/mm^2 (board failure)
Tensile Strength	0.15 N/mm^2
Impact Resistance	Pass 2 Joules
Water vapor transmission	0.3 (Kg./m^2. h ½)
Water absorption	0.15 kg/m^2/hr
Moisture resistance	Excellent
Ageing resistance	Excellent
Water resistance	Excellent

All values are subject to 5-10% tolerance

Standards Compliance:

- ETAG 004: 2000
- ASTM E 2134, E 2110, E 2321
- ASTM E 2486, C 518
- ANSI/ EIMA 99-A
- ISO 17738-3, DIN 52617

Application Procedures

Surface preparation:

All surfaces must be free from dust, loosely adhered material, cement droppings, grease, oil, etc.

Mixing Instructions:

Pour into container about 5- 5.5 Lt. of clean water then slowly add the content of the bag (25 Kg.) of **THERMOPLAST** and mix till obtaining a homogeneous product using a slow speed electric drill. Mix till a smooth consistency is obtained. Allow the mix to stand for 5 minutes then remix again.

Application Instructions:

Apply the base coat of THERMOPLAST plaster in a thickness of 2-3mm using stainless-steel trowel. While the base coat is still wet, embed the fiber mesh

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reinforcement sheet, allow 10-15cm overlap between layers. Care must be taken to fix the edges firmly together. Trowel from the center to the edges with the curve of the mesh against the wall, avoiding wrinkles.
At corners use special reinforcing corner angle glass fiber mesh.
Apply another layer of THERMOPLAST to produce a sandwich system of total thickness of 6mm approximately.

Coverage

3 – 4 kg/ m^2 per layer

Packaging

THERMOPLAST is available in 25kg bag.

Storage

Keep the product in dry and sheltered place at temperature between +5ºC to +35ºC. In these conditions and in closed original containers, the product will have a shelf life of at least 12 months.

Health and Safety

Wear gloves, goggles to avoid any contact with eyes and skin. In case of splashes in the eyes wash abundantly with warm water and consult a doctor.

For further information or particular use, contact SBI Technical Department.

Quality & Care

All products produced in SBI facilities are manufactured under a management system certified to conform to the requirements of the quality and environmental health & safety standards ISO 9001 & ISO 14001.

SBI products are guaranteed against defective materials and manufacture and are sold subject to its standard Conditions for the Supply of Goods and Service. All SBI datasheets are updated on a regular basis. It is the user's responsibility to obtain the recent version.

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