

NESCOAT® PREMIUM THERMAPLAST

Thermal Insulation Board Plaster Mortar

DESCRIPTION

NESCOAT® PREMIUM THERMAPLAST is a cement-based, fiber-reinforced, polymer-modified plaster mortar for exterior thermal insulation boards.

APPLICATION AREAS

- This product is used to create a strong protective layer on the surface of thermal insulation boards, enhancing their durability and providing protection against external factors.
- It is used in fiberglass-reinforced plaster applications on XPS, EPS, and Rockwool thermal insulation board surfaces as a system component together with fiberglass mesh.
- It can be used as a surface leveling plaster in restoration applications.
- It can also be used for bonding XPS, EPS, and Rockwool thermal insulation boards.

ADVANTAGES

- Excellent durability due to its fiber reinforcement and polymer modification.
- Adheres firmly to the surface without flaking or detachment.
- Flexible and highly resistant to cracking.
- User-friendly application with easy-to-apply properties.
- Water-repellent for enhanced protection.
- Durable and reliable with a strong structure.

SURFACE PREPARATION

- The thermal insulation board must be securely bonded to the substrate with adhesive and fixed with anchors.
- The surface must be clean, dry, and free of dust.
- Corner profiles should be installed at the corners.
- In restoration or fiberglass-reinforced plaster applications, the substrate must be even, clean, dry, and strong enough to support the application. Additionally, the surface must be free of substances such as dirt and dust that could hinder adhesion.

MORTAR PREPARATION

Gradually add 25 kg of **NESCOAT® PREMIUM THERMAPLAST** to 6-6.5 liters of clean water and mix with a low-speed mixer for approximately 3 minutes until a lump-free consistency is achieved. Let the mortar stand for 5 minutes to allow the additives to dissolve, then mix again for 1 minute. If necessary, adjust the consistency by adding a small amount of water or product. The prepared mortar should be used within 2 hours. Do not add water or product to the hardened material.

APPLICATION

- Apply the mortar to the surface using a notched steel trowel and comb it.
- Embed the fiberglass mesh into the plaster by pressing it lightly with a steel trowel from top to bottom.
- The fiberglass mesh should be placed evenly across the entire surface.
- Overlap the fiberglass mesh by 10 cm at the joints.
- At corners, turn the fiberglass mesh onto the surface of the adjacent edge.
- Apply the second coat of plaster before the first coat dries and level the surface with a steel trowel.
- The total plaster thickness should be 4 mm, with 2 mm for the first coat and 2 mm for the second coat.
- After application, wash hands and tools thoroughly with plenty of water.

DRYING TIME

- Surface drying time is 1 day at 23°C and 50% relative humidity. Full drying time is 3 days.
- Drying time shortens at higher temperatures and extends at lower temperatures.

CONSUMPTION

- In EPS and XPS thermal insulation systems: 4.5 kg/m²
 - In Rockwool thermal insulation systems: 6.0 kg/m²
- The specified consumption amounts may vary depending on the surface and application conditions. A sample application is recommended for accurate consumption measurement.

WARNINGS AND RECOMMENDATIONS

- During application, the ambient temperature and surface temperature should be between +5°C and +35°C.
- After application, the product should be protected from rain or any other causes of wetness until it sets.
- Do not apply the product if freezing conditions are expected within 3 days following the application.
- In cold weather, it is essential to wait at least 3 days for the plaster to fully dry. This allows the moisture within the material to evaporate and creates a suitable base for the application of the next layer. Failure to adhere to this drying period and applying the final coating or paint before the plaster is completely dry can lead to undesirable outcomes, such as efflorescence (white staining) and surface deterioration.

STORAGE AND SHELF LIFE

- The product should be protected from rain, moisture, intense sunlight, and frost.
- A maximum of two pallets should be stacked on top of each other.
- The shelf life is 12 months from the date of manufacture under proper storage conditions.
- Opened packages should be tightly sealed and consumed within one week if not used immediately.

PACKAGING

25 kg kraft bag (PE reinforced)

SAFETY RULES

- Appropriate protective equipment (clothing, gloves, goggles, mask) should be used during application.
- In case of contact with the skin, the affected area should be washed with plenty of water.
- For more detailed information, please read the Material Safety Data Sheet.

QUALITY CERTIFICATES

- Complies with the ISO 9001:2015 quality management standard.
- Complies with the TS 13687 building materials standard.
- Complies with the G Regulation.



TECHNICAL SPECIFICATIONS

Feature	Value
Appearance	Grey or White Powder
Fresh Plaster's Bulk Density	≥ 1150 kg/m ³
Hardened Plaster's Bulk Density	1400±200 kg/m ³
Sieve Analysis (Residue on 1 mm Sieve)	≤ %1
Flexural Strength	≥ 2 N/mm ²
Compressive Strength	≥ 6 N/mm ²
Adhesion Strength to Thermal Insulation Board	≥ 0,08 N/mm ²
Water Absorption	≤ 0,5 kg/(m ² .min ^{0,5})
Water Vapor Permeability Coefficient (μ)	≤ 15
Thermal Conductivity (λ _t)	≥ 0,47 W/m.K
Reaction to Fire	A1

*The values mentioned above are valid for +23°C and 50% relative humidity.

LEGAL DISCLAIMER

The information in this document has been prepared based on NESCAOT's laboratory tests and field experience. NESCAOT is not responsible for any adverse outcomes resulting from the use of the product outside of its intended purpose or failure to comply with the conditions stated above.