

PLYSET THERMO COAT

■ Description

Cement-based surface plaster for thermal insulation boards

■ Application area

-A plaster used on polystyrene boards (XPS, EPS, mineral wool) in all types of buildings. It provides high performance against tensions on wall surfaces with crack risk thanks to polypropylene fibers

■ Application properties

- Pot life: max. 90 minutes
- Working time: max. 20-30 minutes
- Application thickness 4 mm
- Maximum coat thickness: 2 mm
- Waiting time between coats: min. 3-4 hours
- Waiting time before final coating: 7 days

■ Surface preparation

- PLYSET THERMO COAT application surfaces must be cleaned of dust, dirt, oil and other residues that may impair adhesion.
- If there are defects on the surface, they are repaired with repair mortar.
- The surface must be cured and sound.
- Porous surfaces must be moistened before application.
- The applied substrate must be a sound supporting layer and properly aligned.

■ Application conditions

- Ambient temperature between +5 °C and +35°
- Must not be applied on frozen or thawing surfaces, or on surfaces at risk of frost within 24 hours.
- Must not be applied under direct sunlight, strong wind or on hot surfaces.

■ Warnings and Recommendations

- Foreign substances must never be added.
- After application, all tools used must be washed with water before drying.

■ Application tools

Hand mixer, steel trowel, reinforcement mesh

■ Application

- The mixing container must be clean and free of residues from the previous batch.
- The cleanliness of the water and materials used must be ensured.
- The mortar must be prepared at a ratio of 6-6.5 liters of water to 25 kg PLYSET THERMO COAT .
- First add water to the container, then slowly sprinkle in the powder. Mix until a homogeneous mixture is obtained.
- A low-speed mixer must be used to homogenize the mixture.
- After obtaining a homogeneous mixture, let the mortar mature for 5-10 minutes.
- Before starting application, mix again for 1-2 minutes.
- Once the mixture is homogeneous, no powder, water or other substance must be added.
- Spread the mortar evenly over thermal insulation boards with a steel trowel.
- The plaster reinforcement mesh (fiber mesh) is embedded into the wet plaster by lightly pressing with a steel trowel before the mortar dries.
- At the joints of the plaster mesh approximately 10 cm overlap is provided.
- Once the first plaster coat has lightly stiffened, the second coat is applied before it dries.
- After the second coat is applied, the surface is smoothed with a steel trowel.
- The prepared mortar must be used within 3 hours.
- Mortar in the container that has exceeded its pot life or has crusted over must be discarded.
- After application, hands and tools must be washed thoroughly with water.
- After the surface has cured, any covering can be applied.

■ Consumption

Approximately 3-3.5 kg/m² (per 2 mm thickness)

● Performance Information

- Bulk density of fresh mortar: $\geq 1150 \text{ kg/m}^3$
- Bulk density of hardened cement-based plaster: $1450 \pm 250 \text{ kg/m}^3$
- Sieve analysis: residue on 1 mm sieve $\leq 1.0\%$
- Thermal conductivity: P=50% $\lambda \leq 0.77 \text{ W/mK}$
- Flexural strength: $\geq 2 \text{ N/mm}^2$
- Compressive strength: $\geq 6 \text{ N/mm}^2$
- Bond strength to thermal insulation board: $\geq 0.08 \text{ N/mm}^2$
- Capillary water absorption: $\leq 0,5 \text{ kg/m}^2 \cdot \text{dk}^{0,5}$
- Water vapor permeability coefficient: $\mu \leq 15$
- Fire class: A1
- Temperature resistance: $+5^\circ\text{C}$ and $+30^\circ$
- Note: Application properties values were obtained from laboratory tests ($23 \pm 2^\circ\text{C}$ and $50\% \pm 5$ humidity, with no air movement) and may vary under different environmental conditions. Performance information values were measured under the conditions specified in the relevant product standard and may vary under different conditions.

- **Reference Standards**

- EN 998-1 / Class: GP

- **Packaging**

- 25 kg in Kraft bag,
- 64 pieces per pallet, 1600 kg

- **Physical state**

- Gray powder

- **Storage Conditions**

- During storage, no more than 10 Kraft bags should be stacked.
- Storage must be in covered areas, away from direct sunlight.
- Bags must be stored off the ground and protected from moisture.
- Under these conditions, the product can be stored for 12 months from the date of production.
- Improper storage conditions or exceeding the shelf life may impair the product properties.