

YAPIFINE COOL® SH

Thermal Insulation Plastering Mortar



Product Definition

Cement based and fibre plastering mortar with polymer additive, especially designed for insulation boards (XPS, EPS, Rock-wool etc.).

Areas of Use

- Indoor and outdoor spaces,
- Plastering of insulating boards of XPS, EPS and Rock-wool.

Advantages

- Easy to apply.
- Resistant against water and frost.
- Flexible.
- No sagging, shrinking or cracking.
- Long functioning period.
- Available for direct paint application.
- Offers high water vapour permeability.

Technical Specifications

Appearance	Grey powder
Pot Life	~3 hours
Application Temperature	Between +5°C and +30°C
Application Thickness	3 – 4 mm
Porous Unit Mass per Volume of Fresh Mortar	1700 ± 200 kg/m ³
Porous Unit Mass per Volume of Hardened Mortar	1400 ± 200 kg/m ³
Flexural Strength	≥ 2 N/mm ²

Compressive Strength	≥ 6 N/mm ²
Insulating Board Adhesive Strength	≥ 0.08 N/mm ²
Water Absorption	≤ 0.5 (kg/m ² .dk ^{0.5})
Heat Conductivity (λ10, dry, P=50%)	0.75 W/mK
Water Vapour Permeability Coefficient	≤15 μ
Reaction to Fire	A1

* Hereby technical values and product application instructions are obtained in the wake of tests conducted in environment of +23±2°C temperature with relative humidity of %50±5. Higher temperatures will shorten the time span, while lower temperatures will extend it.

 Packaging	25 kg kraft bag
--	-----------------

 Consumption	4 – 5 kg/m ²
--	-------------------------

Surface Preparation

The application surface on the board should be clean and dry. Thermal insulation boards should be well placed in gauge and plumb.

Gaps between boards should be filled with same insulating material or foam depending on their width.

Mixture Preparation


Slowly pour YAPIFINE COOL SH on 6-6.5 L of clean water and mix until a homogeneous mixture free from lumps is obtained.

A low speed mixer is recommended for the mixing process. Do not add any substances which are not mentioned in the instructions for the application.

Leave to rest and mature for 5-10 minutes. Afterwards mix for 1-2 more minutes and the mortar will be ready for application.

Consume the prepared mortar within 2 hours. Under no circumstances the expired mortar should be used.

Application Information

 Apply the mortar on the insulation board using a steel trowel. Notch the first coat of plaster with 4x4 mm tooth thickness notched trowel for homogenous thickness.

Gently press and fit in reinforcement mesh using a steel

trowel before the plaster mortar dries. Apply in 10 cm overlaps at the joints of reinforcement mesh.

Second coat can be applied when the first coat dries off. Smoothen surfaces with a steel trowel after the second coat.

The screed application on the thermal insulation boards shouldn't be thicker than 4 mm.

When the screed mortar completely dries off, the last coat that is able to breathe is applied.

Application Conditions

Should not be applied when the ambient temperature is not within the values of +5°C and +35°C.

The application area should be protected from the effects of wind and direct sunlight.

Avoid application where there is frost or there is a risk of frost.

Avoid application where there is a risk of frost in the first 24 hours after the application or in areas open to direct sunlight or wind. Avoid application or take necessary protective measures in case snow or excessive cold weather is expected within about 1 week until the cement is set after application.

The final consumption amount might vary depending on application conditions and surface characteristics.

Shelf Life

The shelf life of the product is 12 months when it is stored on wooden pallets in a cool, dry and moisture free environment with an ambient temperature between +10°C and +25°C.

Safety Precautions

The operator should be wearing proper work attire, goggles, mask and protective gloves appropriate to work and worker safety regulations.

In case of contact with the eyes, rinse with plenty of water before seeking immediate medical attention.

Rinse with plenty of water in case of contact with the skin. Since it is cement based, do not breathe its powder.

For further information on the safe handling of this product please read the Safety Data Sheet (SDS).