

YAPIFINE COOL[®] LY

Adhesive Mortar For Thermal Insulation Panels



Product Definition

Cement based, flexible adhesive mortar with polymer additive specially prepared to adhere insulating boards (XPS, EPS, Rock-wool etc.) on surfaces of concrete, brick, gas concrete.

Areas of Use

- Indoor and outdoor spaces,
- Horizontal and vertical applications,
- Any kind of mineral surface,
- Adhering insulating boards on surfaces such as exposed concrete, brick, gas concrete etc.

Advantages

- Easy to apply.
- Not affected by changes in temperature.
- Vapour permeable.
- Non-flammable.
- No shrinking or cracking.

Technical Specifications

Appearance	Grey powder
Application Temperature	Between +5°C and +30°C
Pot Life	4 hours
Application Thickness	max. 8 mm
Waiting Period for Anchoring	min. 24 hours later
Particle Distribution (over 1 mm sieve)	≤ 1 %
Unit Mass per Volume	≥ 1000 kg/m ³

Flexural Strength	≥ 2 N/mm ²
Compressive Strength	≥ 6 N/mm ²
Water Absorption	30 minutes ≤ 5 g
	240 minutes ≤ 10 g
Lower Layer Adhesive Strength	≥ 0.5 N/mm ²
Insulating Board Adhesive Strength	≥ 0.08 N/mm ²
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
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 Consumption	Powder consumption of 4-4.5 kg/m ² for polystyrene board Powder consumption of 5.5- 6.5 kg/m ² for rockwool board
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Surface Preparation

The surface should be cleaned of all residual materials such as dust, oil, dirt, paint, curing materials, bitumen and other foreign substances that would prevent adhesion.

The plaster and weak particles that do not adhere to the surface well enough should be removed from the surface prior to the application.

The damaged sections of the concrete, the fractures and static cracks on the concrete surface should be repaired with the appropriate YAPIFINE MEND repair mortar at least 24 hours before the application.

Highly absorbant surfaces should be saturated with water before the application. It is recommended to apply YAPIFINE UNI PRIME on absorptive surfaces.

Application thickness should be determined according to how rough and porous the surface is.


Gauge is recommended for areas with defected surfaces or larger areas. Board surface, where the application will be made, should be clean and dry.

Mixture Preparation

Pour YAPIFINE COOL LY on 5.5-6.5 L of clean water slowly and mix to obtain a homogeneous paste free from lumps. A low speed mixer is recommended to mix. 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 3 hours. Under no circumstances the expired mortar should be used.

Application Information

 With the smoothness of the application surface in consideration, the adhesive mortar is applied to the back of the boards either by dredging or grouping. After the adhesion process, whether or not the boards are aligned on the same level is checked. According to the ambient temperature and surface features, mechanical plugging is applied 24 hours after at the earliest.

Application Conditions

Should not be applied to surfaces that were exposed to sunlight for too long or to surfaces that are too hot or frozen.

Should not be applied when the ambient temperature is not within the values of +5°C and +30°C.

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

Boards that have stayed under sunlight for too long and have lost their effective features should not be used.

During application, place insulating boards as closely as possible to one another in order to avoid gaps in between. 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).