

Granol'therm KB

Bonding and levelling mortar



Field of Application

Granol'therm KB is used as a bonding adhesive for insulating boards in the Granol'therm EWI system. It is also used as a reinforcing and levelling coat with a fibre mesh such as Granol'therm AGF embedded.

Composition

Factory-made dry mineral mortar according to DIN 18557, corresponds propertywise to mortar group P II, weatherproof, according to DIN 18550

Preparation substrate

Granol'therm KB bonds to all load bearing, stable, dry, and even substrates. Mortar remnants, loose parts, contaminations and efflorescences must be removed from the substrate. Uneven parts on the substrate > 1 cm should be levelled out. Strong absorbing substrates must be primed with Poroprim (1:5 with water diluted) or premoistened with water. Due regard should be given to the precautionary prescriptions according to DIN 18195 against soil moisture. In case of doubt or dubious substrates, please consult our technical advisers.

Application

Granol'therm KB can be applied with all render machines on condition that you follow the manufacturer's instructions.

if applied manually, the dry mortar is intensively mixed with approx. 6 -7 liter clean water. Drying time: approx. 2-3 days depending on substrate and weather conditions. Do not apply at temperatures below +5°C or on frozen substrates.

Further instructions can be found in the technical datasheet Granol'therm KB.

Bonding:

For bonding rigid foam insulating panels on even substrates, the mortar is applied with a notched trowel 10/12 to obtain a ribbed mortarbed on the entire surface of the dry panel. For uneven substrates the mortar is applied along the sides of the panel's surface forming a frame, then two stripes of mortar are applied in the middle of the surface dividing the frame into three parts. Beware to precisely apply the mortar along the sides of the panel's surface.

Reinforcement and embedding:

For the embedding of the reinforcement mesh, Granol'therm KB is applied uniformly over the insulation panels with a flat spatula. The mesh is applied downwards in the mortar and is then levelled out covering the whole mesh.

The total thickness of the mortar and the mesh together should be inbetween 3 and 4 mm. The mesh should be on the upper side of the coat i.e. if we were to split the mortarcoat into two halves the mesh should be just in the outside half of the coat. The meshstrips should overlap eachother by at least 10 cm. After a dryingprocess of 2 to 3 days (or longer according to the weatherconditions) the primer and top coat render can be applied.

Fresh render must be protected against torrential rain and against too fast drying. Especially by direct sunlight or wind exposure the facade should be correctly protected i.e. by hanging a protectionnet. Do not apply when the substrate or the environmental temperatures are below +5° C or above +30°C.

Tools and machines should be cleaned immediately after application with water. Other parts of the building such as windows, doors or tresholds should correctly be protected.

Consumption

Bonding : 3 - 5 kg/m²

Coating of an even panel : 3 - 5 kg/m²

Coating of a ribbed panel : ± 7 kg/m²

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Technical data

Bulk density of dry mortar	± 1.3 kg/dm ³
Freshraw mortar density	± 1.2 kg/dm ³
Granulometry	0 - 1 mm
Waterabsorption after 1 hour (on EPS)	< 1 kg/m ²
Waterabsorption after 24 hour (on EPS)	< 0.5 kg/m ²
Thermal conductivity	0,87 w/(m.K)
Compressive strength	≥ 7.0 N/mm ²
Initial adhesion on EPS	≥ 0.08 MPa
Adhesion on EPS after 48 h immersion in water + 2 h 23°C/50% HR	≥ 0.03 MPa
Adhesion on EPS after 48 h immersion in water + 7 days 23°C/50% HR	≥ 0.08 MPa
Initial adhesion on concrete	≥ 0.25 MPa
Adhesion on concrete after 48 h immersion in water + 2 h 23°C/50% HR	≥ 0.08 MPa
Adhesion on concrete after 48 h immersion in water + 7 days 23°C/50% HR	≥ 0.25 MPa
Water vapour permeability (3 mm)	sd < 0.1 m

Packaging

In 25 kg paper sacks on euro-loan pallets or as silo bulk.

The product must be stored in dry conditions. In unopened bags it can be stored for at least 6 months. Opened bags should be used as soon as possible.

Remarks

In order to prevent colour differences in the uppercoat due to high watertransitions from in- to outside, it is imperative to let new buildings dry out completely before starting the insulation works.

Do not mix binders and additives.

Disposal

Only empty sacks (no dust residues) can be offered for recycling. Hardened material residues, such as mixed building and demolishing debries must be disposed off in an environmentally friendly way. EAK 17 09 04

Security impacts

Do not inhale dust

Irritates eyes and skin

Can severely endanger the eyes

Contact with eyes and skin should be avoided

In the event of eye contact immediately rinse eyes thoroughly with water and consult a doctor.

Sensitization by skin contact possible

All further safety-related information can be found in the safety data sheets.