

BETEK THERMAL INSULATION GROUP

BETEK THERMAL INSULATION ADHESIVE

PRODUCT DESCRIPTION

Betek Thermal Insulation Adhesive is a cement-based special adhesive that is used in fixing thermal and sound insulation materials like polystyrene-based and rock wool plates on mineral-based surfaces like concrete, plaster, brick, gas concrete panel in interior and exterior spaces.

SPECIFICATIONS

- It enables polystyrene-based and rock wool plates to adhere to mineral surfaces strongly.
- Thanks to the high and healthy polymers in its formula; it is
 - Secure and
 - Flexiblewith high adherence performance.
- Its long term resistance to external weather conditions is proven with hydrothermal wall tests.
- It has high water vapor permeability.
- It has superior workability and application quality.

TECHNICAL SPECIFICATIONS

Adhesion (On mineral surface) : $>0.30 \text{ N/mm}^2$
Adhesion (On polystyrene surface) : $>0.08 \text{ N/mm}^2$ EN 13494

COLOR

Gray

SURFACE PREPARATION

Ensure that the surface is smooth, clean, dry, matte enough to allow adhesion, strong and self-supporting. Start the application of **Betek Thermal Insulation Adhesive** minimum 4 weeks after the application of sub-plaster or rough-cast. Dampen especially the absorbent surfaces like gas concrete during the application. Scrape the blistering and flaking sections of the old painted surfaces, and fill the cracks on the surface with **BETEK STAKO** and **BETEK STAKO 0** repair mortars. Notch the old painted surfaces to prepare them for holding the product.

MORTAR PREPARATION

Add clean and cold water into **Betek Thermal Insulation Adhesive** slowly, and mix for approximately 10 minutes with a low speed mixer until the mixture is free from pellets. Adjust the required water amount according to the weather conditions. Rest the mixture for 5 minutes and mix again. Readjust the consistency by adding water, if required. Consume the prepared mixture within 2-2.5 hours according to the weather conditions. Do not reuse the hardened material by reconstituting.

APPLICATION

Apply **Betek Thermal Insulation Adhesive** on prepared surfaces as 3 trowel sized points with equal distances at the center and as a 4-5 cm thick line along the edges of the insulation plate. Notch with 8x8 mm toothed steel trowel on smooth surfaces.

If the plate is rock wool, the plate can be primed by applying adhesive on its edges and central points as a thin layer. After this step, standard adhesive application can be performed.

Avoid applying adhesive on sides of the plates. Adjust the thickness of the adhesive layer based on the smoothness of the application surface. Affix the plates upwards by applying slight pressure on the application surface starting from the subbasement profile at the bottom in a way that each one contacts the other. Avoid overlapping the joints of insulation plates and place the plates irregularly. Ensure to create a leveled surface by pressing firmly with the help of a floating rule. Ensure that the ambient and surface temperatures are between $+5 \text{ }^\circ\text{C}$ and $+30 \text{ }^\circ\text{C}$ during application and drying. Avoid application under conditions including direct sunlight, rain and strong winds. Protect the product from freezing until set. Clean the utilized tools thoroughly with water after application.

BLENDING



Blend 25 kg **Betek Thermal Insulation Adhesive** with 5 to 6 L water depending on the weather conditions.

DRYING TIME

The plates are dowelled and the top coat application is initiated minimum 24 hours after they are fixed. Full-dryness:

2-3 days Since drying occurs physically with the evaporation of water, low temperature and high relative humidity lengthens this period.

CONSUMPTION

For polystyrene plate: 3.5-4.5 kg/m²

For rock wool plate: 4.0-5.0 kg/m²

Please note that specified consumption values may vary depending on the surface and application conditions.

Controlled sample application must be done for precise coverage / consumption.

PACKAGING

25 kg craft bag

STORAGE

May be stored up to 6 months in dry form in its unopened package protected from humidity.

Hazard statements

H315 Causes skin irritation.

H318 Causes serious eye damage.

H335 May cause respiratory irritation.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/physician.

P321 Specific treatment (see on this label).

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.