

Teknoizofix

Heat Insulation Board Adhesive



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Product Description

Cement based polymer modified adhesive mortar which is used for bonding boards (EPS, Mineral Wool, XPS and etc) to surfaces such as concrete, brick and aerated concrete.

Areas of Usage

- It is used to paste heat insulation board on aerated concrete, brick, gas concrete in interior and outer spaces.
- Residences, shopping centers and hospitals,
- For horizontal, vertical and overhead applications,
- On all kinds of mineral surfaces.
- It can be used as general adhesive for applications except sheathing.

Features and Benefits

- It has high adhesion strength.
- It is easy to apply and to give shape.
- It demonstrates high resistance to all kinds of climate conditions.
- It is durable.
- It is not flammable.

Application Instructions

Surface Quality: The surfaces must be clean, smooth, solid and free of substances and residuals preventing adhesion such as all kinds of dust, grease, rust, molding oil, and detergents, etc. The surfaces must be smooth, the weak parts must be removed. If there are cracks, pits on the surfaces or walls which the applications shall be made, they must be repaired with appropriate TEKNOREP repairing mortars.

Surface Preparation: The surface which it shall be applied on must be humidified slightly. There must not be wetness and splash. In addition, if the defects are excessive, finishing or rough coat must be made in advance.

Application Method

Frame Method: TEKNOIZOFIX is applied on all edges of the heat insulation board with the aid of trowel in the form of frame. Additionally, two piles of TEKNOIZOFIX adhesive mortar is placed on the 10 cm. right and 10 cm. left sides from the center of the board as the trowel to be a pile.

This method is generally used on unlevelled or old building walls. In case the surface is defective excessively, heat insulation board should not be forced to be pasted in a malformation manner. In this case, when setting the TEKNOIZOFIX, if the heat insulation board tries to reconstitute, unidirectional adhesion weaknesses may be seen.

Chiseling Method: The heat insulation board is applied on the surface of the building with the aid of toothed trowel. This method is generally used on very smooth surfaces. When applied on defective surfaces, adhesion weaknesses may be seen.

IZODER also recommends only these two methods. Only making lumps without framing is not a correct application method.

Application Notes / Restrictions

- Special precautions should be taken for applications to be performed on glass mosaic, ceramic, painted, old and dusty surfaces;
 - Glossy surfaces such as glass mosaic and ceramic should be primed with TEKNOLATEX 300.
 - Painted old surfaces should be notched or primed.
 - Washing with water jet or priming should be performed on weak surfaces with excessive dust emission.

- For Mineral wool applications TEKNOIZOFIX Thermal Insulation Board Adhesive firstly should be applied as primer to the mineral wool parts to be treated.
- TEKNOIZOFIX application should not be made before rough coat on the briquette or aerated concrete surfaces.
- Product may irritate the skin in case of contact. Work clothes, protective gloves, mask and goggles should be used. Before starting to work, protective cream may be put on hands. In case the mortar contacts with eyes, eyes should be washed immediately with warm water, and medical advice should be get.
- It should be protected, covered with nylon or exposure of the product to frost should be prevented by applying insulating board plates under environment conditions to be below +50°C.
- It should be protected, covered with nylon or exposure of the product to dehydration should be prevented by applying heat insulation board plates under temperatures above +35°C.
- Do not add foreign substances.
- 6,0-7,0 liters of clean and clear water at normal ambient temperature is added into a clean pot purged from all materials that could prevent adhesion. TEKNOIZOFIX in the 25 kg bag in powder form, is emptied in the pot filled with water. It is stirred with a low-speed mixer until a smooth and homogeneous appearance is obtained. Mixture period must be minimum 5 min. The mortar obtained at the end of the process should be rested for 3 min., and stirred again for 2 min. until it becomes homogenous.
- There are two different types of adhesion method depending on the workmanship, evenness of the surface and heat insulation board type to be used.
- After the board is adhered to the surface, in 24 – 48 hours plugging can be started depending on the air temperature.
- It must be protected against bad weather conditions such as direct sunlight, strong wind, high air temperature (above +35°C), rain and frost after the application. The hands should be washed with water and detergent before the product is cured and hardened.
- The equipment should be cleaned immediately after the application before it is hardened yet. They should be cleaned by mechanical methods after it is hardened.

Technical Data

General Information	
Appearance	Grey
Shelf Life	12 months in dry environment in its unopened package.
Package	25 kg kraft bag
Application Information	
Application Temperature	(+5°C) – (+35°C)
Mixing Ratio	6,0-7,0 lt water / 25 kg powder
Pot Life	2 hours
Period of Getting into Use	2 – 3 days
Application Thickness	Max. 8 mm
Plugging Period	After minimum 24 hours
Performance Information	
Adhesion Strength to Substrate (EN 1015-12)	≥ 0,5 N/mm ²
Adhesion Strength to EPS (EN 13494)	≥ 0,08 N/mm ²
Bending Strength (TS EN 1015-11)	≥ 2 N/mm ²
Compressive Strength (EN 1015-11)	≥ 6 N/mm ²
Reaction to Fire (TS EN 13501-1)	A1

Consumption Table

Teknoizofix	1 m² Powder Consumption For Polystyrene Plate	1 m² Powder Consumption For Rock Wool Plate	Amount of Mixture Water (l)
25 kg kraft bag	4 – 4,5 kg	5,5 – 6,5 kg	6,0 – 7,0

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity and valid for its performance after 28 days.

