EPS BOARDS

FOVEO TECH KS 20 ADHESIVE MORTAR FOR EPS BOARDS

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Core features:
- easy-to-use
- frost-proof after curing
- excellent physical and mechanical properties

PRODUCT DESCRIPTION

Adhesive Mortar for EPS boards is available in the form of dry mixture of selected mineral aggregates, cement and special agents enhancing efficiency, adhesion and handling.

USE (purpose)

Adhesive Mortar intended for installing EPS boards to all construction substrates: concrete, silicate, ceramic, cement, cement and lime plasters etc. For interior and exterior use of new buildings as well as those subjected to thermo-modernization. Can be used to fill in holes and cracks in stabilized substrates. The product comprises External Thermal Insulation Composite System - FOVEO TECH S.

PRODUCT PROPERTIES

Open time:
(from application to board installation) to 20 minutes
Adhesive workability
(after mixing with water) to 60 minutes
Adhesion to concrete ≥0,3 MPa
Adhesion to polystyrene ≥0,1 MPa
Application and substrate temperature from +5ºC to +30ºC

*Technical data and information on application manner are provided for temperature +20˚C and relative air humidity 60%.

APPLICATION

SUBSTRATE PREPARATION
The substrate intended for installing polystyrene boards must be even, dry, solid, dust and dirt free as well as free from any biological (fungi, moulds, mosses) and chemical aggression etc. All sorts of dirt must be removed by using water under high pressure. Old plasters and paint coats with poor adhesion must be removed. Fill in holes with Adhesive Mortar KS 20 KU 21 (max. to 6.0 mm in one coat) or a regular plaster mortar. In order to reinforce substrates with poor adhesive properties, highly absorptive or chalky (i.e. leaving dust traces after palm rubbing), it's necessary to apply Acrylic Primer GA 10, 24 hours prior to polystyrene installation. New cement and lime plasters as well as concrete should be seasoned and cured. All substrates must be stabilized as far as moisture is concerned and the curing process completed. In the event of installing polystyrene boards on substrates with poor adhesive properties, it is necessary to carry out an adhesion test. Install sample polystyrene blocks of 10x10 cm dimensions and remove the manually after 4-7 days. The substrate is appropriate if the polystyrene is torn inside. If, however, the adhesive is removed with the polyurethane block and the substrate coat, it's necessary to remove the poor coat and apply Acrylic Primer GA 10 - 24 hours prior to board installation.

MORTAR PREPARATION:
Put 5-5,5 litres of cool water into a clean container and while mixing put the whole content of the adhesive i.e. 25kg (0,2-0,22 litres of water per 1 kg of powder). Mix the compounds by taking advantage of a slow-speed agitator (driller) till obtaining a uniform consistency. After approx. 5 minutes mix it again. Do not add any other substances except water. The adhesive must be used within 1 hour after mixing with water. In the event of curing, it's necessary to mix it again without water or fresh mortar. Adding too much water impairs the adhesive features: adhesion to substrate, peel adhesion test, curing time.

EPS BOARDS INSTALLATION:
Polyurethane for insulation within ETICS method should meet requirements of PN-EN 13163:2004 standard. In case of walls, apply the mortar alongside the edges of polystyrene board - min. width of 3 cm and thickness between 1 and 2 cm, and pointwise - 'mounds' - diameter of 8-12 cm - remember to place the mounds symmetrically and at the same volume. The total amount of applied mortar should cover at least 40% of the board's surface, and 60 % after pressing the board against the surface. In the event of smooth substrates and ceilings, or base courses of buildings apply the mortar on the whole surface of the board with a comb trowel (at least 10x10 mm). After applying the mortar, the board must be immediately put against the wall in the appropriate area and pressed so as to obtain a flat surface with relation to neighbouring boards. The boards must be installed alternately and tightly by joining them with the previously installed sheets. The boards must not be pressed twice or repositioned. Gaps exceeding 2 mm must be filled by polystyrene stripes. Minimum 24 hours after assembly, the surface must be abraded by sandpaper and protected by installing additional anchors in accordance with the technical design or ITB Manual no. 447/2009. It's recommended to use 4 anchors every 1/m², whereas in edge areas and base courses 6-8 anchors every 1/m². The depth of anchors should be at least 6 cm in case of solid substrates, and 8 cm in light substrates made of autoclaved aerated concrete, expanded clay aggregate etc. In the event of masonry units the anchor must go at least through two walls of the unit. In order to perform a reinforced coat of fibreglass mesh it's necessary to apply adhesive KU 11 or KU 21.

APPLICATION PARAMETERS
Use at the substrate and ambient temperature between +5ºC and +30ºC. Do not apply on hot substrate. During application it's necessary to avoid direct sunlight, strong wind and rain. Substrate and ambient temperature during application and over the course of 24 hours must not be lower than +5ºC. Cured and mixed mortar must not be diluted by water or fresh material. Do not apply the mortar in joints of insulation boards. The information provided constitutes principle guidelines regarding the product use, works must be carried out in accordance with ITB regulations no. 447/2009 and 418/2007, principle construction rules and HSE regulations. The manufacturer shall not be liable for any damages resulting from inappropriate use or purpose of the product.

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BEST BEFORE DATE

12 months from the date of manufacture

CONTAINERS

25 kg

EFFICIENCY

Average consumption per 1 m² with edge and pointwise application between 3,5 and 4,5 kg
Average consumption per 1 m² with whole surface application between 5 and 6 kg

COLOURS

• colour - grey

STANDARDS, TESTS AND CERTIFICATES

The product comprises a set of products for external wall insulation of buildings by taking advantage of FOVEO TECH S System covered by European Technical Approval ETA 15/0022. Declaration of performances No 22/FTS/2015.

FIRE AND HSE RECOMMENDATIONS

ATTENTION!

The information included in the technical data sheet is to provide an efficient use of the product, however, it cannot form grounds for the manufacturer's liability, since the performance conditions are beyond its control. It's forbidden to make any adjustments to the product's formula, which can significantly decrease the properties of the used material. In the event of combining the product with other products, the manufacturer shall not bear any responsibility. All the information above is given in good faith, based on current knowledge and experience. The manufacturer reserves the right to amend the content of subsequent editions without the obligation to inform its customers.

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