FIBREGLASS MESH

FOVEO TECH KU 11 ADHESIVE MORTAR FOR FIBREGLASS MESH

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

PRODUCT DESCRIPTION

Adhesive Mortar For Fibreglass Mesh KU 11 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 performing reinforced layer with fibreglass mesh in ETICS (light-wet method). Can be also used 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 ETICS - 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

EPS board installation:
The substrate intended for installing EPS 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 Mortar KS 10 or KU 11 (max. to 6.0 mm in one coat) or a regular plaster mortar. In order to reinforce substrates with poor adhesion, highly absorptive or chalky (i.e. leaving dust traces after palm rubbing), it's necessary to apply Acrylic Primer GA 10 24h prior to wool installation. Polystyrene can be installed on new cement or cement and lime plasters minimum 14 days after their application. In case of concrete substrates min. after 30 days. 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 polyurethane 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.

Reinforced layer performance:
The whole surface of installed EPS boards must be carefully abraded by sandpaper, and if necessary, carry out other reinforcement by applying plastic anchors. EPS boards without reinforced coat over the course of above 2 weeks - their quality condition must be checked, if yellow and dusty must be abraded by sandpaper. In order to strengthen the external corners and edges it's necessary to apply fibreglass corners with mesh.

Put 5,75–6,25 litres of cool water into a clean container and while mixing put the whole content of the adhesive i.e. 25kg (0,23-0,25 litres of water per 1 kg of powder). Mix it by taking advantage of a slow-speed agitator (driller) till obtaining a uniform consistency. After approx. 5 minutes mix it again. Next mix it again and adjust the consistency by adding a small amount of water. Do not add any other substances except water. Workability time after mixing with water up to 4 hour. 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.

Polyurethane for insulation within ETICS method should meet requirements of PN-EN 13163 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.

The reinforced coat can be performed at least after 3 days but no later than 3 months after polyurethane installation. If the polyurethane is not covered by the reinforced coat within 14 days, it's necessary to estimate its condition - yellow and dusty boards must be abraded by sandpaper. Before applying the mortar on the whole surface it's necessary to install additional diagonal mesh stripes - 20x30cm - in elevation corners. Appropriate mesh stripes must be also installed in interior corners of window frames. Apply the mortar with a comb trowel upon abraded and dust-free polyurethane boards and immerse the glass fibre mesh in it. Immerse the mesh by performing vertical stripes and apply 10 cm of overlap, and next smooth it so as to

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cover it completely. The mesh must not adhere directly to the polyurethane and cannot be visible. If necessary, apply another coat of mortar and smooth the surface, abrade the surface imperfections after drying out. The thickness of the reinforced coat must be at least 3 mm. The ground area, including a base course of a building, must be installed with two layers of the reinforced mesh or fibreglass armour mesh. The plaster can be performed at least after 3 days but no later than 3 months after performing the reinforced coat. Before applying a plaster it's recommended to paint the surface with undercoat/primer PA 10, PT 20 or PN 30 (depending on the type of plaster applied).

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 4 and 5 kg
Average consumption per 1 m² with whole surface application between 5 and 7 kg
Average consumption per 1 m² with reinforced coat application between 3 and 5 kg

COLOURS

• colour - grey

STANDARDS, TESTS AND CERTIFICATES

Manufacturer: Fabryka Farb i Lakierów Śnieżka SA, 39102 Lubzina 34A,
Production plant: TORGGLER Poland Sp. z o.o., ul. Sadowa 6, 95-100 Zgierz
The product comprises: A set of products for external wall insulation of buildings by taking advantage of FOVEO TECH S System covered by Technical Approval ITB AT-15-8290/2011 + ANNEX no. 1
Declaration of conformity no. 01/FTS/2010, edition 4 as of 07.03.2013
Certification body: Building Research Institute in Warsaw

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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