



FOVEO TECH KW 12 ADHESIVE MORTAR FOR WOOL

Core features:

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

PRODUCT DESCRIPTION

KW 12 Adhesive Mortar for wool 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 is intended for installing mineral wool facade boards as well as lamella to all construction substrates: concrete, silicate, ceramic, cement, cement and lime plasters etc., as well as to perform a protective coat reinforced with a fibreglass mesh. Can be also used to fill in holes and cracks in stabilized substrates. For interior and exterior use of new buildings as well as those subjected to thermo-modernization. The product comprises External Thermal Insulation Composite System - FOVEO TECH W.

PRODUCT PROPERTIES

Open time:

(from application to board installation) to 20 minutes

Adhesive workability

(after mixing with water) to 60 minutes

Adhesion to concrete $\geq 0,3$ MPa

Adhesion to mineral wool $\geq 0,1$ MPa or damage in wool

Application and substrate temperature from +5°C to +25°C

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

APPLICATION

SUBSTRATE PREPARATION:

Installation of mineral wool board: The substrate intended for installing mineral wool 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 10, KS 20, KU 11, KU 21 or KW 12 (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. Mineral wool 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 mineral wool boards on substrates with poor adhesion, it is necessary to carry out an adhesion test. Install sample polystyrene blocks of 10x10 cm dimensions and remove the manually after 4 days. The substrate is appropriate if the polystyrene is torn inside. If, however, the adhesive is removed with the polystyrene 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 coat performance: The surface of mineral wool board ought to be clean and solid. Any gaps between the boards should be filled in by appropriate wool stripes. Install additional anchors in accordance with the technical design or ITB Manual no. 447/2009.

MORTAR PREPARATION:

Prepare 5-6 litres of pure cool water in a clean container and while mixing put the whole content of the bag i.e. 25kg into it (0,20-0,23 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 1 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.

INSTALLATION OF MINERAL WOOL BOARD:

Before installing wool boards it's necessary to smooth the surface with a thin coat of adhesive and wait until it starts binding. In case of walls, apply the adhesive alongside the edges of wool board - min. width of 3 cm and thickness between 1 and 2 cm, and pointwise - 'mounds' - diameter of 8-12 cm - place the mounds symmetrically in a few areas on the board. 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 put - within max. 20 minutes - 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. Their position can be adjusted within 10 minutes after installing. Gaps exceeding 2 mm must be filled by wool stripes. 24h after board application, install additional anchors in accordance with the technical design or ITB Manual no. 447/2009. Recommended number of anchors - 6-8 pcs./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.

REINFORCED COAT PERFORMANCE:

The reinforced coat can be performed at least after 3 days but no later than 3 months after mineral wool installation. Apply a thin coat of Adhesive Mortar KW 12 on the surface of boards and wait until it starts binding. 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 initially covered and dust-free 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 cover it completely.

The mesh must not adhere directly to wool and cannot be visible. If necessary, apply another coat of adhesive. Any surface irregularities can be smoothed and abraded by sandpaper. The thickness of the reinforced coat must be at least 3 mm. In order to strengthen the external corners and edges it's necessary to apply fibreglass corners with mesh. 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 , PT 20 or PN 30 (depending on the type of plaster applied).

NECESSARY TOOLS

A slow-speed agitator (driller), a trowel, steel trowels (smooth and comb), a container for adhesive.

APPLICATION PARAMETERS

Apply the product at the substrate and ambient temperature between +5°C and +25°C. 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 +5°C. Cured and mixed mortar must not be diluted with 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 principle construction rules and HSE regulations. The manufacturer shall not be liable for any damages resulting from inappropriate use or purpose of the product.

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 4,5 and 5,5 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 5 and 6 kg

COLOURS

• colour - grey

NOSTANDARDS, TESTS AND CERTIFICATES

MANUFACTURER: Fabryka Farb i Lakierów Śnieżka SA, 39102 Lubzina 34A,

Production plant: ALPOL GIPS Sp. z o.o., Fidor k/Końskich, 26-200 Końskie

The product comprises a set of products for external wall insulation of buildings by taking advantage of FOVEO TECH W System covered by AT-15-8291/2011

Declaration of conformity no. 02/FTW/2010, edition 4 as of 2013.03.07

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.