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TECHNICAL SHEET 06.02.04-EN

JUBIZOL EPS fix

Adhesive mortar only for EPS

1. Description, Application

JUBIZOL EPS fix is used in the JUBIZOL EPS facade thermal insulation system as an adhesive and base plaster on expanded or extruded polystyrene boards. It is made on the basis of cement and polymer binders and is characterized by good strength properties, good adhesion to insulation boards and to all types of mineral wall substrates (unplastered brick and concrete walls, unplastered aerated concrete walls, all types of plastered walls, etc.).

2. Technical data

Packaging		25 kg
Density (application-ready mortar mixture)		~1.6 kg/dm³
Open time (ready-to-use mortar compound)		2-3 h
Total layer thickness for base plaster on EPS or XPS insulation boards		~3 mm
Water dilution mass		~26 %
Drying time of adhesive mortar after fixing of insulation boards T = +20 °C, relative air humidity = 65 %	For further treatment (flattening, anchoring of Insulation lining)	~24h
Drying time of the base coat T = +20 °C, relative air humidity = 65 %	To achieve resistance against leaching with rainwater	24 h
	For further treatment (application of the render finish)	~24 h
Minimum consumption for fixing the insulation boards		~3.5 kg/m²
Maximum consumption for fixing the insulation boards		~5 kg/m²
Average consumption of basic plaster on EPS or XPS		~4.5 kg/m²/mm

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Vapor permeability EN ISO 7783-2	coefficient μ	~20
	value Sd (d = 3 mm)	~0.06 m
Thermal conductivity λ EN 1745		~0,56 W/mK
Water absorbtion w24 EN 1015-18		<0.1 kg/m2*h0,5 class W3
Adhesion to concrete (after 28 days)	In dry	>0.25 MPa
	After being soaked in water (2 hours)	>0.08 MPa
	After being soaked in water (7 days)	>0.25 MPa
Adhesion to expanded polystyrene (after 28 days)	In dry	>0.08 MPa
	After being soaked in water (2 hours)	>0.03 MPa
	After being soaked in water (7 days)	>0.08 MPa

3. Installation Conditions

The temperature of the air and the wall base should be from +5 ºC to +30 ºC, and the relative air humidity should not be higher than 80%. Protect façade surfaces against the sun, wind and rainfall with curtains; however, do not conduct any work in rain, fog or strong wind (≥30 km/h) despite such protection.

4. Preparation of Surface for Fixing of Insulation Boards

With JUBIZOL EPS fix, insulation boards made of expanded or extruded polystyrene can be glued to any sufficiently solid, dry and clean surface. The surface should be flat - when checking with a 3 m long batten, the gap between the control batten and the wall surface should not exceed 10 mm. Larger irregularities should be leveled by plastering and not by applying a thicker layer of adhesive.

No primer should be applied to clean brick wall surfaces before gluing the insulation lining, but such coatings are required for other types of building substrates. For suitably rough and normally absorbent substrates, use ACRYL Emulsion diluted with water. The primer should be applied with a suitable brush, long-haired paint roller or by spraying. The insulation lining can be glued approximately 2 to 3 hours after applying the primer.

Plastered facade walls are a suitable base for gluing insulation cladding only if the plaster is firmly adhered to the wall surface, otherwise it should be completely removed or suitably repaired and patched. Under normal conditions (T = +20 ºC, rel. humidity = 65 %) newly installed plasters should be dried or matured for at least 1 day for each mm of thickness. Surfaces infected with wall mould or algae must be disinfected and cleaned before gluing. Concrete substrates should be cleaned with hot water or steam. Before gluing, all poorly adhered and non-adherent decorative coatings and splashes should also be removed from the substrate.

For technical information on the aforementioned base coatings, please read the technical data sheet.

5. Preparation of Insulation Lining Surface for Application of Base Coat

Two days after fixing, the insulation boards made of expanded or extruded polystyrene and any uneven insulation covering should be sanded (sand paper, no. 16). If required, the covering should be additionally anchored with two, two-part plastic nail-in anchors before applying the lower layer of the base coat.

6. Preparing the Adhesive Mortar for Application

Prepare the adhesive compound by pouring the content of a bag (25 kg), during constant stirring, into approximately 6.5 litres of water. Stir the compound in a suitable container with an electric mixer or in a mixer used for the preparation of mortars and concrete. After 10 minutes, when the compound has swollen up, stir again, and, if necessary, add a little water. Open time of the prepared compound is 2-3 hours

7. Fixing the Insulation Boards

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The adhesive material is applied on one side – the back side of the boards – with a stainless painting trowel or a coating trowel in continuous bands at the edge of the boards. Also, additionally apply it on 4 to 6 spots or in two stripes in the middle of the board (when fixing of insulation onto ideally level surfaces, the compound may be also applied a notched stainless steel smoothing trowel – width and depth of notches 8 to 10 mm – evenly across the entire surface of the boards). The quantity of the applied adhesive should be such that it spreads to at least 40 % of the board's surface when the boards are pressed onto the wall surface.

The boards should be fixed closely together, so that the adhesive does not seep into the joints. Throughout the fixing process, straightness of the outer surface of the covering is checked with a suitably long lath. Boards on adjacent rows are indented in accordance with brick connection rules, whereby the indent of vertical joints should be at least 15 cm. Brick connection rules should also be taken into account as far as corners are concerned, where boards of one wall surface should stretch over the outer surface of the lining of the neighbouring wall surface by at least a few centimetres. The 'cross bond' should be implemented in the corner. The excess part of the boards should be cut off at the corners in a straight line, but only 2 to 3 days after fixing the boards.

Any required additional anchoring of the insulation covering should be performed 2 to 3 days after fixing the boards (when the adhesive has hardened completely).

Indicative or average consumption:
JUBIZOL EPS fix ~3.0 to 6.0 kg/m2, depending on the quality of the surface

8. Application of Adhesive Mortar into the Thermal Insulation System Base Coat

Mortar compound is applied onto the insulation covering manually or by a machine in two, and only in special cases (dug-in parts of the building and where the facade surfaces of buildings bordering on children's and school playgrounds are "very exposed to damage") in three coats. The thickness of the lower layer on the covering made of expanded or extruded polystyrene should be ~2 mm. Immediately after applying JUBIZOL EPS fix, the JUBIZOL vinyl-covered glass fibre mesh should be pressed into it. After drying for at least 2 to 3 days, the upper layer of the base coat with a thickness of ~1 mm should be applied and the facade surface should be levelled and smoothed as much as possible. The final treatment of facade may begin when the base coat is completely dry, namely 1 to 2 days after applying the upper layer.

Fluctuations in the product's colour shades among different production dates and batches is a consequence of using natural raw materials and it doesn't affect final physical and chemical characteristics of dried and hardened material!

Approximate or average consumption:
JUBIZOL EPS fix ~1.5 kg/m2 for each millimetre of thickness (depending on the type of insulation covering and the method of final treatment of the facade)

The tools should be washed with water immediately after use; dried stains cannot be removed later.

9. Storage, Transportation Conditions and Durability

During transportation, protect the product against moistening. Store in dry and airy places, out of the reach of children!
Shelf life when stored in an originally sealed and undamaged packaging: at least 12 months

10. Other Information

Technical instructions are given based on our experiences and are given as a guideline for achieving optimal results. We cannot take any responsibility for the damage, caused by incorrect selection of a product, incorrect use or unprofessional work. JUB also bears no responsibility in cases where the substrate for the application of our products is prepared inadequately or with materials of inadequate quality from other manufacturers. In the case of applying our products to existing substrates of old coatings or pre-prepared substrates with materials from other manufacturers, it is obligatory to make appropriate test fields with all the intended applications of JUB products, in accordance with the technical instructions, before starting the work.
Safety measures: Follow the instructions on the safety data sheet of the product.

This technical sheet supplements and replaces all preceding editions. We reserve the right to change and supplement data in the future.

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