

## TECHNICAL SHEET 06.01.05-EN



# JUB Unifix

## Adhesive mortar only for EPS

### 1. Description, Application

JUB Unifix is a powdery cement mixture with the addition of polymer binders, intended for fixing insulating panels made of expanded polystyrene to mineral substrates and for the production of reinforced base coat on heat-insulating cladding. In the construction of light walls, it also works well for fixing aerated concrete (siporex) blocks. It is characterized by good adhesion to expanded polystyrene and all types of mineral surfaces (uncoated brick and concrete walls, cement and lime-cement walls).

### 2. Technical data

Packaging		25 kg
Density (application-ready mortar mixture)		~1.6 kg/dm <sup>3</sup>
Open time (ready-to-use mortar compound)		2-3 h
Total layer thickness for base plaster on EPS and XPS insulation boards		~3 mm
Water dilution mass		~20 %
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)	~24-48 h
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 (for each mm of thickness)
Minimum consumption for fixing the insulation boards		~3.5 kg/m <sup>2</sup>
Maximum consumption for fixing the insulation boards		5 kg/m <sup>2</sup>
Average consumption of basic plaster on EPS		4.25 kg/m <sup>2</sup>

Vapor permeability EN ISO 7783-2	coefficient $\mu$	~70
	value Sd (d = 3 mm)	~0.2 m
Water absorption w24 EN 1015-18		<0.05 kg/m <sup>2</sup> *h <sup>0,5</sup>
Water absorption class		class W2
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 °C to +30 °C, 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 ( $\geq 30$  km/h) despite such protection.

### 4. Preparation of Surface for Fixing of Insulation Boards

#### a) fixing panels made of expanded polystyrene

With JUB Unifix adhesive, insulating panels made of expanded polystyrene can be fixed to a fragile or sufficiently strong, dry and clean mineral base. The base should be flat - when checking with a 3 m long strip, the cut between the control strip and the wall surface must not exceed 10 mm. Larger unevenness is leveled with plastering and not with a thick application of adhesive. We do not apply any basic coatings to clean brick wall surfaces before fixing the insulating coating, but such coatings are required for other types of building foundations. For a suitable rough and normally absorbent base, use ACRYL Emulsion diluted with water. The base coat is applied with a suitable brush, with a long-haired painter's roller or by spraying. We can start fixing the insulating coating approximately 2 to 3 hours after applying the base coat.

Plastered facade walls are a suitable base for fixing insulating coatings only if the plaster is firmly attached to the wall surfaces, otherwise they must be completely removed, or properly repaired and patched. Under normal conditions (T = +20 °C, relative humidity = 65%), newly constructed plasters are dried or matured for at least 1 day for each mm of thickness. With wall dances or surfaces infected with algae must be disinfected and cleaned before fixing. Concrete surfaces are cleaned with hot water or steam. Before fixing with the base, we also remove all poorly adhered and non-adherent decorative coatings and sprays.

#### b) fixing aerated concrete blocks

The contact surfaces should be firm and clean, free of poorly bonded particles, dust, oil residues, grease and other dirt. Blocks just moisten well before fixing.

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

Two days after fixing the insulation boards made of expanded polystyrene, any unevenness of the insulation coating is sanded (sandpaper No. ). If necessary, the lining is additionally anchored with two-part plastic split anchors before applying the lower layer of base coat.

### 6. Preparing the Adhesive Mortar for Application

Prepare the adhesive compound by pouring the content of a bag (25 kilos) into approximately 5 litres of water during constant stirring. Stir the mortar in a suitable container with a manual electric mixer at low RPM, or in a mixer for preparing mortars and concretes. After 10 minutes, when the compound has swollen up, stir again, and, if necessary, add a little water. If necessary, add a little more water. Open time of the prepared compound is 2-3 hours.

## 7. Fixing the Insulation Boards

### a) fixing panels made of expanded polystyrene

The adhesive mass is applied on one side - on the back of the panels, namely with a stainless painter's trowel in continuous bands along the edge of the panels and additionally dotted in 4 to 6 places or in two bands in the middle (when fixing on ideally flat surfaces, you can also use a serrated stainless steel trowel - width and depth of the teeth 8 to 10 mm - evenly over the entire surface of the panels). The amount of applied adhesive should be such that it spreads over at least 40% of the surface of the panels when they are pressed onto the base.

We fix the panels tightly to each other, but in such a way that the adhesive does not get into the joints. The flatness of the outer surface of the covering is checked with a suitably long slat throughout the gluing process. The panels in adjacent rows are staggered according to the rules of brick joints, whereby the stagger of vertical joints should be at least 15 cm. The rules of brick joints are also observed at the corners, where the panels of one wall face should extend at least a few centimeters beyond the outer surface of the cladding of the adjacent one, and in the corner a so-called cross bond is made. The excess part of the panels at the corners is cut off, but only 2 to 3 days after fixing.

Any necessary additional anchoring of the insulating coating is carried out 2 to 3 days after fixing (when the adhesive has completely hardened).

Approximate or average consumption:

JUB Unifix ~ 3.5 to 5 kg/m<sup>2</sup>, depending on the quality of the substrate

### b) fixing aerated concrete blocks

Adhesive is applied to the contact surfaces with a toothed trowel (tooth width and depth 4 mm x 4 mm), so that the thickness after "compression" is no more than 2 mm. When building, we follow the masonry rules on brick joints.

Approximate or average consumption:

JUB Unifix ~ 3 kg of dry mixture per m<sup>2</sup> fixed surfaces

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

The adhesive is applied to the insulating coating by hand or by machine in two layers. The thickness of the bottom layer on the expanded polystyrene lining is ~2 mm. Immediately after applying the JUB Unifix adhesive, we press the JUBIZOL plasticized glass mesh into it. After drying for at least 2 to 3 days, apply the top layer of base coat in a thickness of ~1 mm and level and smooth the facade surface as much as possible. Finishing of the facade can begin when the base coat is completely dry, i.e. 1 to 2 days after applying the top layer.

Approximate or average consumption:

JUB Unifix ~ 1.5 kg/m<sup>2</sup> for each millimeter of thickness (depending on the type of insulation coating and the method of facade finishing).

Wash the tool thoroughly with water immediately after use, dried stains cannot be removed.

## 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 6 months.

## 10. Other Information

Technical instructions in this brochure 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.

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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