

# BOLIX UZ

## Universal Winter Base Coat and Adhesive for embedding mesh and installation of insulation boards

### PRODUCT DESCRIPTION:

- excellent adhesion to mineral surface and polystyrene,
- water vapour permeable,
- application at ambient and surface temperatures  $\geq 0^{\circ}\text{C}$ ,
- element of the retrofit and repair of external walls insulation, including "insulation over insulation" subject to the ITB Technical Recommendation
- suitable for EPS boards

### USE:

BOLIX UZ is a base coat formulated to embed glass fibre mesh in ETICS insulation systems and to bond polystyrene insulation boards to typical mineral surfaces (such as concrete, masonry walls, cement and lime-cement plasters, etc.) as well as to re-insulate walls or install insulation over existing one.

It is also used to level minor irregularities /up to 5 mm/ of mineral substrates and smooth out mineral substrates prior to paint and thin-coat render application.

### SUBSTRATE PREPARATION:

#### Prior to insulation board installation:

The surface must be structurally sound, even, surface contaminants that may affect adhesion such as dust, grease, bitumen and other barrier materials. Remove any friable parts such as peeling or flaking paint or plaster, laitance or debris from the existing wall. Prime porous surface (particularly aerated concrete) with the primer BOLIX N. For smooth surfaces, prime with BOLIX BETOGRUNT. Prime smooth and non-absorbent surfaces with BOLIX BETOGRUNT. For concrete substrates formed in shutterboards (including floors, walls):

- brush off with a stiff brush,
- remove any dust, brittle, loose, crumbling or friable particles from the surface,
- prime with BOLIX BETOGRUNT

Level larger gaps and irregularities with the mortar BOLIX W or BOLIX WB (concrete surfaces). Prior to installation of insulation boards to weak, porous substrates or of unknown condition, carry out an adhesion test. To test, attach a few samples of EPS boards (size 10x10 cm) to exterior wall in various spots and pull them off by hand after minimum 3 days. The substrate is sufficiently sound if the failure is in the polystyrene. Otherwise, sand, remove friable or crumbling material or prime to prepare the surface and do the adhesion test again.

Prior to insulation of large-panel buildings, it is recommended to assess the fastening of the outer textured layer in the sandwich panel structures.

#### Prior to base coat application:

Attach the insulation boards with mechanical fixings (alternatively, according to the insulation design) and sand with coarse sandpaper or an abrasive rasp and remove the sanding dust. Apply a filler over the washer plates of mechanical fixings. Install corner trims or beads, window profiles, movement beads, diagonal mesh strips at the corners of door and window openings using the adhesive BOLIX US and allow to dry. Make sure that the installed insulation boards are flush to provide even and continuous surface. Fill any interstices or gaps between

insulation boards with polystyrene wedges matching coat thickness or low-pressure installation foam.

#### NOTICE:

*If a powdery deposit appears on the surface of insulation boards or the boards are exposed to sunlight for more than 7 days, they need to be sanded and cleaned of the dust.*

### PRODUCT PREPARATION:

Measure the clean water (5.25 ÷ 5.75 litre) into a suitable vessel/bucket and slowly add the adhesive while mixing using a low-speed drill until a homogeneous consistency is achieved. After 5 minutes and another stirring, the mixture is ready to use. Add the same amount of tap water for each packaging. Do not admix, except for water.

### APPLICATION:

#### Insulation board installation:

##### - dab and ribbon method

Apply the adhesive to the insulation board in strips and dabs i.e. 3÷6 cm wide strips around the perimeter of the board with at least three additional dabs of adhesive distributed uniformly over the remaining surface. As soon as the adhesive is applied, place the board on the wall and press firmly with a trowel until it is flush with the previously installed board surface. After pressing to the surface, the well-applied adhesive should cover at least 40% of the surface, and the coat thickness should not exceed 10 mm.

##### - tooth bed method

For even and smooth surfaces, Insulation boards can be attached using the tooth bed method (10-12 mm notch size). As soon as the adhesive is applied, place the board on the wall and press firmly with a trowel until it is flush with the previously installed board surface.

Apply insulation boards in a running bond pattern.

#### Base coat application:

Use a notched trowel (8-10 mm notch size) to apply a continuous layer of the slurry over the insulation boards to a uniform thickness of approx. 3-4 mm and immediately embed the fibreglass mesh into the adhesive so that it is evenly stretched and fully embedded in the base coat. Adjacent mesh strips should overlapped not less than 10 cm at mesh seams. The base coat surface should be even and smooth with no reinforcing mesh fabric visible. If not, once the first coat has dried, apply a second thin coat (approx. 1 mm thick) of the adhesive to smooth and even the surface. Base coat thickness should be between 3 – 5 mm.

The areas, which are susceptible to mechanical damage (especially plinth and ground area) should have double mesh reinforcement embedded in the base coat, placed in opposite directions towards each other. Alternatively, the armour mesh strips BOLIX HD 335/P can be applied in the first layer, which must butt joint and not overlap. The armour mesh cannot be lapped over corners. The next mesh layer should be applied after initial drying of the first layer. Reinforced base coat thickness for this solution should be between 4 – 6 mm.



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### LIMITATIONS AND RECOMMENDATIONS:

- Not suitable for areas not damp-proofed against capillary action.
- Before application, protect or mask surfaces such as windows, doors, window sills, etc.
- Allow fresh cement and lime-cement renders to cure for minimum 28 days.
- Plan the surface area to be insulated taking into consideration weather conditions, surface type and workforce.
- Prior to insulation application identify all installations on the building façade or around it to prevent their damaging during mechanical fixing of the insulation (drilling).
- When the application takes place in low temperatures, the surface may not be icy.
- Protect from direct sunlight exposure, precipitation and wind during application operation and drying. Use scaffolding meshes.
- It is not advisable to attach the reinforcement without spreading the adhesive over insulation boards first.
- Do not reduce the base coat thickness, since it can substantially reduce the strength of the coat.
- Avoid extremely thin layer of adhesive as you may experience difficulty with levelling minor irregularities. It may also result in installers exercising too much force on the board surface by excessive bending or striking of the boards to make them flush.
- Low temperature, increased humidity and improper air circulation extend the drying and setting time of the adhesive.
- Clean tools and hands with running water immediately after use. After drying difficulties with cleaning may be experienced. Wipe new splashes off soiled surfaces with damp cloth. Once hardened, the material can only be removed mechanically.

### PRECAUTIONS:

Due to alkyd reaction of the product, avoid contact with skin and eyes. In case of eye contact, flush eyes with plenty of water and seek medical advice.

### TOOLS:

- Agitator or low-speed mixing drill (400-500 rpm) with hoop paddle.
- Stainless steel big and small plastering trowel or float
- Stainless steel scraper and trowel
- Bucket
- Hand sander (coarse sanding paper) / abrasive rasp for polystyrene

### TECHNICAL DATA:

The following technical data are for the temperature of +23 (±2)°C and relative air humidity of 50 (±5)%. Under other conditions the technical data may vary.

#### Ambient and surface temperature at application and setting:

from 0°C to +25°C

After 8h from adhesive application, the temperature may fall to -5°C

#### Relative humidity at application and setting:

up to 80%

#### Bulk density:

approx. 1.55 g/cm<sup>3</sup> (±10%)

#### Colour:

grey

#### Workability:

≤ 1,5 h

#### Coefficient of heat conductivity λ:

≤ 0.78 W/(m\*K)

#### Diffusion resistance factor μ:

≤ 25

#### Drying and setting time of the adhesive after board installation / base coat application:

min. 48h (in temp. from +5°C to +25°C)

min. 72h (in temp. from 0°C to +5°C)

#### Packaging:

25 kg bag

#### No. of containers per pallet and net weight:

48 / approx. 1200 kg

#### Shelf life:

12 months from the date of production provided on the packaging

### NOMINAL COVERAGE:

**Insulation board fixing** ≥ 4.0 kg/m<sup>2</sup>

#### Base coat application

**Single mesh** ≥ 4.0 kg/m<sup>2</sup>

**Double reinforcement including a** > 4.5 kg/m<sup>2</sup>

**combination of standard and armour mesh**

For insulation board installation the coverage will vary with the surface levelling and condition as well as the percentage of the insulation board face covering with the adhesive.

For base coat application, coverage will vary with the number of reinforcement layers and base coat thickness.

To determine precise coverage, perform a test patch on the surface.

### STORAGE:

Store in intact containers in temp. between +5°C and +25°C. Protect from damp. Store away from the reach of children.

### COMPOSITION:

It is a mixture of hydraulic binders, polymers, fine mineral fillers and modifiers.

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