

BOLIX UBG No Priming Base Coat

Universal micro-fibre reinforced white cement base coat (to embed reinforcing mesh)

PRODUCT DESCRIPTION:

- white cement based,
- water vapour permeable,
- water repellent,
- no priming required prior to thin-coat render application in the ETICS systems,
- micro-fibre reinforced - increased resistance to cracking and crazing
- excellent adhesion to mineral surface and polystyrene,
- suitable for white and graphite-enhanced EPS and XPS boards
- When mixed with the flexibility enhancer BOLIX FLEX, it can provide a high impact resistant base coat on mineral wool slabs

USE:

BOLIX UBG is a white cement base coat used in the ETICS external wall insulation systems to embed glass fibre mesh.

It is also suitable for levelling minor irregularities of mineral substrates (up to 5 mm) and smoothing their surface prior to paint or thin-coat render application.

Due to its special hydrophobic formula, it is not necessary to prime prior to thin-coat BOLIX renders application.

When mixed with the admixture BOLIX FLEX, it provides a high impact resistant base coat to be applied in EWI based on mineral wool slabs (with renders BOLIX SIT/SIT Complex or BOLIX SI-SIT).

SURFACE PREPARATION:

Attach the insulation boards with mechanical fixings (anchors, dowels) after minimum 48h from bonding the EPS boards as designed in the technical design, where the type, arrangement and number of fixings per 1m² should be defined. Sand EPS boards and smooth XPS with coarse sandpaper or an abrasive rasp and remove the sanding dust. With mineral wool panels, the sanding is not necessary, however the irregularities that occurred during installation may be sanded, if any. Apply a filler over the washer plates of mechanical fixings, if countersunk fixing with foam cap was not used. Install corner trims or beads, window profiles, movement beads, diagonal mesh strips at the corners of door and window openings using the adhesive BOLIX UBG and allow to dry. Make sure that the face of the installed boards is even, continuous and that the sanding dust was removed. Fill any interstices or gaps between insulation boards with slivers of the used insulation material to the depth of insulation or for polystyrene, with the low expansion PU foam BOLIX PM-L or BOLIX ZP, if the gaps are small.

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 (5.0 ÷ 5.5 litre) into a suitable vessel/bucket and add the material. Mix 2 kg (1 packaging) of BOLIX Flex with potable water (4.5 – 5.5 l) and add 25 kg of BOLIX UBG. Mix thoroughly 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:

Use a notched trowel (8-10 mm notch size) to apply a continuous layer of the base coat over the insulation boards to a uniform thickness of approx. 3-4 mm and immediately embed the fibreglass mesh into the mortar so that it is evenly stretched and fully embedded in the base coat.

Adjacent mesh strips should overlap 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, apply a second thin coat (approx. 1 mm thick) of the adhesive to smooth and even the surface, once the first coat has dried. Base coat thickness should be between 3 – 5 mm.

For mineral wool boards, immediately prior to base coat application, trowel the face of mineral wool board with a thin coat of the mortar, work well into wool structure and then, using the wet-on-wet method, apply further material to the required thickness to embed the mesh.

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. The next mesh layer should be applied after initial drying of the first layer. Reinforced base coat thickness should be between 4 – 6 mm. The base coat does not have to be primed prior to BOLIX thin-coat render application.

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).
- Protect from direct sunlight exposure, precipitation and wind during application operation and drying. Use scaffolding meshes.
- When exposed to sunlight, the graphite-enhanced polystyrene heats up quickly, what may result in deformations of the insulation boards. Therefore, it is recommended to apply the BOLIX PTE compound to graphite-enhanced EPS, which will reduce heat absorption by the EPS and in consequence reduce its thermal deformation.
- It is not advisable to attach the glass fibre mesh 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.



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- 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.
- For dark colour renders (HBW<20) it is recommended to perform a patch test on the area of 1 m² to eliminate the risk of base coat showing through and lack of colour consistency and stability. Render undercoat application is recommended, if the base coat is going to be applied in temperatures at the upper temperature limits or to extend the open time of the render. Use the undercoat as instructed on the packaging. Apply render, once the undercoat has dried.

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 a hoop paddle.
- Stainless steel big and small plastering trowel or float
- Stainless steel scraper and bucket 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 +5°C to +25°C

Relative humidity at application and setting:
up to 80%

Bulk density:
approx. 1.50 g/cm³ (±10%)

Colour:
white

Workability:
≤ 1.5

Coefficient of heat conductivity λ:
≤ 0.78 W/(m*K)

Diffusion resistance factor μ:
≤ 25

Water absorption after 24h immersion according to ETAG 004:
< 400 g/m²

Drying and setting time of the adhesive after base coat application:
min. 48h

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:

Reinforced base coat application

Single mesh over EPS and XPS boards	≥ 4.0 kg/m ²
Single mesh over mineral wool slabs (with BOLIX FLEX additive)	≥ 4.5 kg/m ²
Double reinforcement on EPS and XPS boards	> 4.5 kg/m ²
Double reinforcement on mineral wool slabs (with BOLIX FLEX additive)	> 5.0 kg/m ²

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

To determine precise coverage, perform a patch test 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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