

SOLTHERM BC-P QUICK No Priming Base Coat

Micro-fibre reinforced white cement adhesive (to embed reinforcing mesh)

PRODUCT DESCRIPTION:

- white cement based,
- water vapour permeable,
- hydrophobic,
- no priming required prior to thin-coat render application in the ETICS systems,
- micro-fibre reinforced - enhanced resistance to cracking,
- excellent adhesion to mineral surface and polystyrene,
- suitable for EPS and XPS insulation boards

USE:

SOLTHERM BC-P QUICK 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 SOLTHERM renders application.

SUBSTRATE PREPARATION:

Prior to levelling of minor irregularities of mineral substrates

The surface must be structurally sound, even, clean of 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 absorptive surface (aerated concrete in particular) with the SOLTHERM SP Primer. Prime smooth surfaces with SOLTHERM CS. Larger gaps and imperfections fill with SOLTHERM LRC.

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 (50x100x100 mm) 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 base coat 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 SOLTHERM UB 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 the low-pressure installation foam SOLTHERM PM-L or SOLTHERM ZP.

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.

Preparation of XPS boards:

Rasp smooth XPS boards on both faces and remove dust. Corrugated boards do not require such preparation prior to base coat application.

PRODUCT PREPARATION:

Measure the clean water (5.0 ÷ 5.5 litre) into a suitable vessel/bucket and add the adhesive while mixing using an agitator or 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 water to each container. Do not admix except water.

APPLICATION:

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 overlap not less than 100 mm 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. Reinforced base coat thickness should be minimum 3 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 SOLTHERM 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 should be between 4 – 6 mm.

The base coat does not have to be primed prior to SOLTHERM thin-coat render application.

LIMITATIONS AND RECOMMENDATIONS:

- Do not apply to substrates, which are not damp-proofed against capillary absorption.
- 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.
- 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 SOLTHERM 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.
- 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 stains off soiled surfaces with damp cloth. Hard stains may be removed only 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

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instructed on the packaging. Apply the render, once the undercoat has dried.

PRECAUTIONS:

Due to alkyl 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 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:
≥ 1.5h

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

Diffusion resistance factor μ:
≤ 25

Packaging:
25 kg bags

No. of containers per pallet and weight:
48 / ca. 1200 kg

Shelf life:
12 months from the date of production provided on the packaging

NOMINAL COVERAGE:

Reinforced base coat application

Single mesh	≥ 4.0 kg/m ²
Double reinforcement including a combination of standard and armour mesh	≥ 6.5 kg/m ²

Coverage will vary with the number of reinforcement layers and base coat thickness.

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

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.

Usage is typical usage and may vary between installers. Coverage rates quoted for products will not be guaranteed under any circumstances.

The rates quoted are based on site experience but may vary due to site conditions, operator skills etc. No claim will be allowed relating to coverage of materials.

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.

BOLIX S.A. guarantees product quality but has no control over its application and use. BOLIX takes no responsibility for contractors' and distributors' performance. The information supplied herein is given in good faith based on our current knowledge and latest application methods. The information provided cannot replace designer's and contractor's expertise and does not dismiss anyone from observing good practice and the OHS regulations. Should you have any further queries, carry out necessary tests or contact SOLTHERM Customer Technical Support. The publication of this Technical Data Sheet renders older editions invalid.