

BOLIX CONCRETE EFFECT PANEL

Panels with a CONCRETE effect

PRODUCT DESCRIPTION:

- decorative element attached to the wall surface to imitate the concrete formwork
- 2 colour variants:
 LIGHT GREY [CP01]
 NATURAL CEMENT [CP02]
- easy to install, attach and fit
- high resistance to impact and flexibility

USE:

BOLIX CONCRETE EFFECT PANEL is a panel made of resin and cement designed to give a decorative faux concrete formwork effect to interior and exterior walls of new and existing buildings.

The product can be applied to:

- base coat of External Thermal Insulation and Composite Systems (ETICS) with EPS boards or mineral wool slabs,
- mineral substrates such as: concrete, cement or cement-lime renders,
- fibre cement cladding and cement-bonded particleboards, which are firmly fixed to the substrate or frame, - plasterboards,
- gypsum plasters,

SUBSTRATE PREPARATION:

The current ETICS Instruction Manual IB/01 EPS or BOLIX IB/02 must be followed for the application of ETICS and for reinforced base coat in particular.

The surface must be structurally sound, stable, even, clean of surface contaminants such as dust, grease, bitumen and other barrier materials that may affect adhesion. Remove any loose or friable material, peeling or flaking paint or plaster. Prime porous surfaces (aerated concrete in particular) with the BOLIX N Primer. Level minor gaps and imperfections with a base coat for embedding glass fibre mesh such as BOLIX U or the cementitious joint compound BOLIX SPN (concrete substrate). Level major gaps and imperfections with the mortar BOLIX W and when set, smooth out the entire surface with the above base coat or joint compound.

When attaching decorative panels to gypsum plaster or plasterboards, prime the surface with the primer BOLIX UltraGrunt and when it has dried, apply BOLIX OP.

Prior to fixing decorative panels to other surfaces (including base coat of thermal insulation systems), prime with BOLIX OP.

PRODUCT PREPARATION:

A ready-to-use product.

To reduce waste, plan the layout of the panels across one individual surface prior to panel installation. Cut the panels using an angle grinder with diamond blade.

APPLICATION:

In all cases, before application, it is recommended to prepare a representative trial area to assess the final aesthetic effect.

Attach the panels using BOLIX KD PANEL adhesive tinted to match the colour of the concrete-effect panel used. Adhesive coverage on an even substrate is approx. 2.8 kg/m². Spread the ready mix adhesive across the substrate and work it well into the surface using a 6x6 mm notched trowel, finally spreading the adhesive perpendicular to the long edge of the panels being attached.

The panels may be installed in a running bond pattern, with a joint offset of not less than 10 cm, or in a straight joint pattern, with the joints aligned precisely in one line. Position each panel initially at a distance of approx. 5 mm from each edge of the previously attached panel, then press the panel firmly into the adhesive and slide it towards the edges of the previously installed panels, leaving a distance of 2–3 mm. The joints should be tightly filled to prevent rainwater from migrating under the panels. The side edges of the attached panels should be coated with BOLIX KD PANEL adhesive. Press each panel with a wallpaper roller, making sure that the entire panel adheres properly to the substrate surface and that all air voids or pockets are removed.

Remove excess adhesive squeezed out from the joints using a putty knife and a damp sponge before it dries. During application, make sure not to soil the panels with the adhesive. Any soiling must be removed immediately before it dries, then wiped dry, checking the cleaning effect. The time between adhesive application and panel installation must not exceed 10 minutes.

After at least 24 h from panel installation, the finish glaze BOLIX DECO Lazur may be applied. Spread the glaze evenly using, for example, a sponge or roller. Depending on the desired final effect, glazing may be applied in two coats. Apply the next coat of BOLIX DECO Lazur after the previous coat has dried. The obtained coating has a semi-matte finish.

The panels have factory-applied surface protection; therefore, coating them on site with the glaze is optional and is not required.

LIMITATIONS AND RECOMMENDATIONS:

- It is recommended to perform a detailed hygrothermal analysis. This analysis must take into account the specific diffusion characteristics of decorative claddings and the risk of interstitial condensation.
- When selecting the colour of BOLIX DECO Lazur, particularly on walls exposed to sunlight, the potential thermal load should be considered, as it may lead to product damage.
- Make sure that the surface is even and carefully prepared.
- On fresh cement and lime-cement renders, the decorative panel installation process should be started after a curing period of minimum 4 weeks, and on gypsum plasters after minimum 2 weeks of curing.
- Application to insufficiently cured and damp substrates may result in debonding, blistering, efflorescence, etc.
- Do not apply to areas subject to prolonged water exposure, especially horizontal surfaces, accumulated snow, or substrates not damp-proofed against capillary action. This also applies to permanently damp rooms, such as bathrooms, saunas, swimming pools, etc.
- Before creating the decorative effect, properly cover and protect all adjacent elements within the work area that are not intended for application.
- Plan the surface area to be treated, taking into consideration weather conditions, surface type and workforce capacity.
- During application and immediately afterwards, while the adhesive fixing BOLIX CONCRETE EFFECT PANEL decorative panels is drying, protect the surfaces from direct sunlight, precipitation and wind. Use scaffolding meshes. Do not install on heated surfaces.
- Low temperature, increased humidity and lack of proper air circulation extend the adhesive drying time compared with the time specified in the Technical Data Sheet.
- Make sure that skinning of the adhesive does not occur during panel bonding, as this may impair adhesion and lead to debonding of the

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panels. If skinning occurs, remove the adhesive and apply a fresh portion.

- Individual product batches may differ in shade and dimensions within the tolerance range. Minor irregularities result from the production technology and do not constitute a product defect. Verify the visual consistency of the products before installation.
- In order to check correct bonding, it is recommended to randomly pull off a panel/panels to verify the correctness of adhesion.
- The use of dark colours (HBW < 30) on large, sun-exposed façade surfaces is not recommended due to increased absorption of solar radiation. In order to reflect part of the thermal energy from solar radiation and thereby reduce the temperature on the façade surface, for dark colours (HBW < 30) it is mandatory to use the BOLIX DECO Lazur glaze coating with "cool pigments".
- The use of decorative panels results in a local increase in the thickness of the finishing layers compared with the remaining façade surfaces finished with a thin-coat render. As a result, over time, stains and uneven soiling may appear at the joints of the elements, caused by dirt accumulating on the panel edge, as well as by rainwater splash-back and run-off.
- Before bonding the panels, carefully determine the dimensions of the area to be covered. When bonding each panel, check its correct positioning in relation to the edges of the area, e.g. building corners, window and door reveals and other offsets or openings, as well as in relation to the adjacent panel bonded earlier. This is intended to eliminate possible dimensional discrepancies at the edges of the decorative effect.
- The position of the panels is corrected by creating a joint between them; its maximum width may be up to 2 mm. The joint must always be filled with BOLIX KD PANEL adhesive. Ongoing checking of the alignment and possible correction may be necessary due to the dimensional tolerance of the panel, which is specified later in this Technical Data Sheet.
- The manufacturer is not responsible for the consequences of combining the panels with materials that are physically and chemically incompatible or with paint coatings not recommended by BOLIX.
- The manufacturer is not responsible for damage to decorative panels caused by structural movement of the building, substrate impact, lack of expansion joints, dark colours, etc.
- Do not use aggressive cleaning agents or excessive water pressure to clean decorative claddings.
- Natural ageing of coatings, including changes in shade, does not constitute a product defect.
- Effects resulting from dirt, environmental deposits, mechanical damage and their consequences do not constitute a product defect.
- Glazing of the panels is optional. Each layer of glaze changes the final colour of the panels.

- 6x6 mm toothed trowel
- Low-speed drill
- sponge
- putty knife

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 during application and curing:
from +5°C to +25°C

Relative humidity at application and curing:
up to 80%

Dimensions:
1195 mm [±2 mm] x 597 mm [±1 mm]

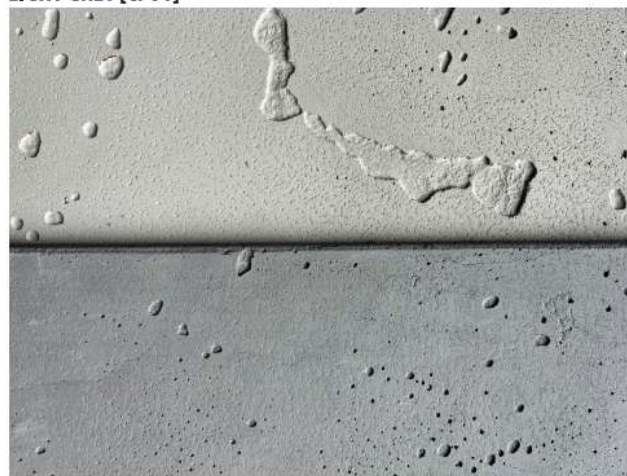
Thickness:
4 mm [±1 mm]

Weight:
approx. 6 kg/m²

Diffusion resistance:
Decorative panel + BOLIX DECO Lazur: Sd ≤ 0.5 m

Colour range:

LIGHT GREY [CP01]



NATURAL CEMENT [CP02]

Packaging:

3 pcs

No. of containers per pallet and net weight:

15 containers / approx. 187.5 kg

Shelf life:

5 years

APPROXIMATE COVERAGE:

ca. 1.39 of the panel / 1m²

STORAGE:

Store in intact, originally sealed containers at a temperature between +5°C and +25°C. Protect from exposure to water, direct sunlight, overheating and freezing. Store away from the reach of children.

PRECAUTIONS:

Applicable in the country of use.

This product is a prefabricated article. Providing a Safety Data Sheet in accordance with REACH Regulation (EC) No 1907/2006, Annex II, is not required.

TOOLS:

- Angle grinder

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The manufacturer is not responsible for physical defects resulting from improper transport conditions or incorrect storage.

Immediately before application, store at a temperature not lower than +15°C.

COMPOSITION:

Cement, quartz sand, polyvinyl binder, modifiers, fibreglass mesh.

BOLIX S.A. guarantees the declared quality of the product, but has no influence on the type of application and the method of use. BOLIX is not responsible for the work of the Designer and Contractor. All information provided above has been given in good faith, according to the latest state of knowledge and application technology. It does not replace the professional preparation of the Designer and Contractor and does not release them from the obligation to follow the principles of good construction practice and occupational health and safety, or to verify and comply with local building standards, fire safety regulations and application guidelines applicable in the country of use. The manufacturer is not responsible for any application non-compliance with local law. Before purchasing and applying the product, check whether the documentation of this product allows its use in accordance with the applicable regulations.