

BOLIX SIL



Silicone Exterior Paint

PRODUCT DESCRIPTION:

- high resistance to:
 - weather conditions
 - UV radiation - contains UV absorbers
- high:
 - hydrophobic properties - low wettability of paint coat
 - water vapour permeability
 - colour stability
- increased resistance to:
 - algal and fungal growth
 - salt deposits - forms additional barrier - calcium ions blockers i.e. salt inhibitors
- wide colour range
- using the BOLIX SIL paint in intense colours on the base 00^{STRONG} we obtain:
 - high resistance to paint film crazing or checking
 - no mottling, suede-like finish
- to paint coat the BOLIX RIBBED EFFECT PANEL use solely the BOLIX SIL paint prepared on the base paint00^{RIBBED}.
- component of the BOLIX EWI systems with EPS or mineral wool
- meets the BREEAM International criteria for VOC content
- meets the LEED's VOC content criteria for the certification under credit 4.2
- may affect the compliance with the requirements for MAT 1 under BREEAM - Use of materials of low environmental impacts.
- no phenols content
- formaldehyde content < 0.001%

USE:

BOLIX SIL the silicone paint (organosilicone) provides decorative, renovation and protective paint coats to masonry walls. It is ideal for primary paint coating and recoating.

Suitable substrates:

- thin-coat renders (including ETICS based on polystyrene or mineral wool)
- cement plasters or cement-lime,
- fibre cement sheets, etc.
- not rendered concrete masonry walls, bricks, ceramic or clay blocks,
- solid and firm paint coats well bonded and adhering firmly to the above surfaces
- BOLIX RIBBED EFFECT PANELS (BOLIX SIL on the base paint00^{RIBBED})

SUBSTRATE PREPARATION:

Allow fresh thin-coat and traditional renders to cure:

- mineral renders BOLIX MP – for min. 4 days,
- other BOLIX thin-coat renders – when the render surface is dry,

- cement and lime-cement renders – for min. 28 days.
- BOLIX RIBBED EFFECT PANEL - not earlier than 3 days and not later than 1 month from panel installation.

The surface to be painted must be structurally sound, even, clean of surface contaminants such as dust, grease, bitumen and other barrier materials that may affect adhesion. For relatively smooth surfaces, level minor gaps and imperfections with a base coat for embedding reinforcing mesh such as BOLIX U or the cementitious smoothing compound BOLIX SPN (concrete substrate). Larger gaps and imperfections fill with BOLIX W repair mortar.

Prior to paint application, prime with BOLIX SIG. Priming is strongly recommended for mineral renders both thin-coat and traditional renders. It will even out surface porosity, reduce the risk of salt efflorescence, lap marks or streaking on the painted surface.

The ribbed/grooved panels BOLIX RIBBED EFFECT PANEL do not need to be primed before the application of the paint BOLIX SIL on the base paint 00^{RIBBED}

PRODUCT PREPARATION:

Packaging contains a ready-to-use product. Immediately prior to application, stir the full packaging thoroughly with an agitator or a low-speed drill with a paint mixing paddle (birdcage or hoop paddle) until a uniform mixture. If necessary thin with a small amount of clean water (maximum 10% for first coat and 5% for the making sure that the thinning proportions are the same for the entire painted area.

APPLICATION:

Apply evenly two paint coats by brushing, rolling or spraying. Apply the second coat when the first is completely dry.

Where the substrate will be the BOLIX RIBBED EFFECT PANELS:

Apply the paint in minimum two coats. Spread evenly with a paintbrush and go with the pattern. Make sure that no excess paint is left, especially in holes indentations. For the first paint coating, thin the paint with up to 10% of fresh clean water. Apply the second coat when the first is dry, not earlier than after 12h, even if the paint coat is touch dry. The paint must be rubbed into the surface of the panels, and especially into the grooves of the ribbed texture (in the inside corners), making sure that the paint film thickness is uniform (not thicker locally, no paint sags, runs), which applies to each paint coating.

NOTE!

Do not paint the panels with a roller or block brush, as the paint cannot be rubbed into hard-to-reach areas properly. Using of such tools also prevents uniform paint distribution over the entire surface of the ribbed panels and uneven paint film thickness. Failure to follow the rules of painting may result in cracking of the paint film surface.

LIMITATIONS AND RECOMMENDATIONS:

- We do not recommend application of dark colours (HBW < 30) to surfaces exposed to sunlight, due to increased absorption of solar radiation. In order to reflect some of the sun heat and thus reduce surface temperature, use paints with 'cool pigments' for selected colours from the chart BOLIX Spectrum 300+ (36A, 36B, 37A, 37B, 38A, 38B, 39A, 39B).

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- Do not apply to areas subject to prolonged water exposure, accumulated snow and areas not damp-proofed against capillary action.
- Prior to paint application, cover or mask adjacent surfaces that are not to be painted.
- Plan the surface area to be painted taking into consideration weather conditions, surface type and workforce.
- Apply the paint wet-on-wet to one continuous, separate surface, without interruptions. Use the paint from the same batch.
- Paints tinted in different tinting centres or from different batches may vary in tone or shade and must therefore always be checked for colour consistency before painting.
- Protect from direct sunlight exposure, precipitation and wind during application operation and drying. Use scaffolding meshes.
- When neighbouring surfaces have different texture, they may give the optical effect of various colour shades.
- Spray apply only in windless weather.
- Low temperature, increased humidity and improper air circulation extend the drying time.
- Clean tools and hands with running water immediately after use. After drying difficulties with cleaning may be experienced.
- Tightly seal the container and use the remnant product shortly.
The colour of the dried coating may differ from its colour reference card, what may result from different coat texture, thickness, number of layers, or hygrothermal conditions during application and drying. Prior to application, carry out a test painting to check whether the desired colour is achieved.
- When painting the BOLIX RIBBED EFFECT PANELS and where the paint film is exposed to sunlight before it is completely dry (min. 12 h under optimum conditions), it may be highly susceptible to adhesion loss (peeling, blistering, flaking) and/or cracking of the paint film. This effect may be visible immediately after painting or in the course of time. Dark paint colours are much more prone to these adverse effects, when exposed to sunlight, since the dark painted surfaces heat up faster. At the same time, insufficient curing time between successive paint coat applications (min. 12 h) and application of excessive paint coating thickness in the panel grooves may lead to paint film cracking.

PRECAUTIONS:

Avoid contact with skin and eyes. In case of eye contact flush eyes immediately with plenty of clean water and seek medical attention, if necessary. Wear personal protective clothing and equipment during application with an airless spray machine. Do not breathe product spray. People not involved in the application should be kept away.

TOOLS:

- Agitator or a low-speed drill (400÷500 rpm) with a birdcage or hoop mixing paddle or other paint stirrer
- Paint brush or roller, spraying machine.

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 curing:
from +5°C to +25°C

Relative humidity at application and drying:
from 30 to 80%

pH:
approx. 8.5

Density of paint bases:
base 30: approx. 1.50 kg/dm³
base 20: approx. 1.47 kg/dm³
base 00: approx. 1.45 kg/dm³
base 00_{STRONG}: approx. 1.30 kg/dm³
base 00_{RIBBED}: approx. 1.45 kg/dm³

Colour range:
colour chart BOLIX SPEKTRUM 300+
other colours made to order based on the customer's sample or reference card

Gloss acc. to PN-EN 1062-1:
matowy - G₃

Coating thickness acc. to PN-EN 1062-1:
100 < E₃ ≤ 200 μm

Grain size acc. to PN-EN 1062-1:
<100 μm - S₁ (fine)

Vapour permeability coefficient μ acc. to PN-EN 1062-1:
≥ 350 g/(m²d)
High - V₁ > 150 g/(m²d)

S_d value acc. to PN-EN 1062-1:
≤ 0.06 m

Water absorption acc. to PN-EN 1062-1:
≤ 0.09 kg/(m²h^{0.5})
Low - W₃ ≤ 0.1 kg/(m²h^{0.5})

Crack bridging acc. to PN-EN 1062-1:
A₀

Permeability of carbon dioxide acc. to PN-EN 1062-1:
C₀

Resistance to scrubbing according to PN-C-81913:
>10000 cycles

Touch dry time:
at least 2 h

Full resistance to scrubbing according to PN-C-81913:
at least 28 days

VOC content:
VOC limit (cat.) A/c/FW – 40 g/l (year 2010)
Product contains maximum 40 g/l VOC.

Packaging:
buckets: 5l, 10l, 18l

No. of containers per pallet and net weight:
5l bucket: 80 / ca. 600 kg (base 30); ca. 600 kg (base 20); ca. 588 kg (base 00); ca. 580 kg *base 00); ca. 520 (base 00_{STRONG})
10l bucket: 44 / ca. 660 kg (base 30); ca. 647 kg (base 20); ca. 638 kg (base 00); ca. 572 kg (base 00_{STRONG}); ca. 638 kg (base 00_{RIBBED})
18l bucket: 24 / ca. 648 kg (base 30); ca. 635kg (base 20); ca. 626 kg (base 00); ca. 562 kg (base 00_{STRONG})

Shelf life:
24 months - best before date provided on the packaging

APPROXIMATE COVERAGE:

- 0.18 – 0.25 l/m² – smooth and non-porous surfaces at two coat application
- 0.30 – 0.40 l/m² – porous surfaces (e.g. BOLIX textured renders) at two coat application

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■ 0.36 - 0.50 l/m² for two paint coating of the BOLIX RIBBED EFFECT PANEL

Coverage will vary with the surface evenness, porosity and roughness. To determine precise coverage, perform a patch test on the surface.

STORAGE:

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

COMPOSITION:

It is a mixture of silicone dispersion, fillers, pigments, biocides and modifiers.

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