

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
- **component of the BOLIX EWI systems with EPS boards or mineral wool batts**
- **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.

SUBSTRATE PREPARATION:

Allow fresh thin-coat and traditional renders to cure for:

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

- cement and lime-cement renders – min. 28 days.

The surface must be structurally sound, even, clean of surface contaminants such as dust, grease, bitumen, algae and other barrier materials that may affect adhesion. Level minor gaps and imperfections with an adhesive for embedding glass fibre mesh such as BOLIX U or the cementitious smoothing compound BOLIX SPN (concrete substrate). Fill larger gaps and imperfections with the mortar BOLIX W.

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

PRODUCT PREPARATION:

A ready-to-use product. Immediately prior to application, stir the full packaging thoroughly with an agitator or a low-speed drill and mixer (hoop paddle or jiffy mixer) until a uniform mixture. If necessary thin with a small amount of clean water (maximum 10 % for first paint coat and 5% for second) 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 paint coat when the first is completely dry.

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).
- 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.
- 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.

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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 hoop propeller or jiffy mixer.
- Paint brush or roller, spraying machine
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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

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 30); ca. 588 kg (base 20); ca. 580 kg *base 00); ca. 520 (base 00_{STRONG})

10l bucket: 80 / ca. 600 kg (base 30); ca. 588kg (base 20); ca. 638 kg (base 00); ca. 580 (base 00_{STRONG})

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

NOMINAL 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

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.

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 BOLIX Customer Technical Support. The publication of this Technical Data Sheet renders older editions invalid.

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