BOLIX SIL

Silicone façade paint

PRODUCT DESCRIPTION:

- **high resistance to:**
  - **weather conditions**
  - **UV radiation - contains UV absorbers**
- **high:**
  - **hydrophobic properties - low wettability of the paint coating**
  - **water vapour permeability**
  - **colour stability**
- **increased resistance to:**
  - **algal and fungal growth**
  - **efflorescence - incorporates a calcium-ion blocking system, i.e. efflorescence inhibitors**
- **wide colour range**
- **when BOLIX SIL paint in dark colours is prepared from base 00_{STRONG}, it provides:**
  - **high resistance to cracking of the paint coating**
  - **no suede effect**
- **for painting BOLIX RIBBED EFFECT PANEL, use only BOLIX SIL paint prepared from base 00_{RIBBED}.**
- **component of BOLIX ETICS based on EPS or mineral wool**
- **meets the BREEAM International requirements for VOC content**
- **meets the LEED certification requirements for Credit 4.2**
- **may contribute to meeting the BREEAM certification requirements for MAT 1 - Use of materials with a low environmental impact.**
- **contains no phenols**
- **formaldehyde content: ≤ 0.001%**

USE:

BOLIX SIL silicone (organosilicon) paint is intended for decorative, renovation and protective coatings on external building walls. It is ideally suited for both initial painting and renovation painting.
Suitable substrates:
- thin-coat renders (including ETICS based on mineral wool or EPS),
- cement and cement-lime renders,
- fibre-cement boards, etc.,
- unrendered walls made of concrete, bricks, ceramic blocks or calcium silicate blocks,
- sound paint coatings with good adhesion to the above substrates,
- BOLIX RIBBED EFFECT PANEL (BOLIX SIL, base 00_{RIBBED}).

SUBSTRATE PREPARATION:

Newly applied thin-coat and traditional renders may be painted after the appropriate curing period:
- BOLIX MP mineral renders - min. 4 days,
- other BOLIX thin-coat renders - once the render coating is dry,
- cement-lime and cement renders - min. 28 days,
- BOLIX RIBBED EFFECT PANEL - no earlier than 3 days and no later than 1 month after bonding the panels.

The substrate to be painted must be sound, dry and free from bond-inhibiting substances such as dust, grease, loose particles, bitumen, algae and any other contaminants that may reduce adhesion. On relatively smooth substrates, minor irregularities may be levelled with an adhesive mortar for embedding reinforcing mesh, e.g. BOLIX U, or with BOLIX SPN cement-based smoothing compound (concrete substrates). Level larger irregularities and fill defects with BOLIX W mortar.
Before applying the paint, prime the substrate with BOLIX SIG. This is particularly important when painting mineral renders, both thin-coat and traditional. Priming evens out substrate absorbency and reduces the risk of efflorescence, runs and streaks on the finished paint coating.

BOLIX RIBBED EFFECT PANEL does not require priming before application of BOLIX SIL paint prepared from base 00_{RIBBED}.

PRODUCT PREPARATION:

The packaging contains a ready-to-use product. Immediately before use, thoroughly mix the entire contents with a mixer or low-speed drill fitted with a basket or paddle mixer until a uniform consistency is obtained. If necessary, dilute with a small amount of clean water (maximum 10% by volume for the first coat and maximum 5% by volume for the second coat), maintaining the same dilution ratio over the entire surface forming a separate area.

APPLICATION:

Apply the paint evenly in two coats using a brush, roller or spray equipment. Apply the second coat after the first coat has dried.

Where the substrate is BOLIX RIBBED EFFECT PANEL:
Apply the paint evenly in at least two coats with a brush, working along the pattern and ensuring that no excess paint remains, particularly in the recesses. For the first coat, dilute the paint with a small amount of clean water (10% by volume of the paint). Apply the second coat after the preceding coat has dried, but not earlier than 12 hours later, even if the paint appears touch dry beforehand. Rub the paint thoroughly into the panel surface, especially into the internal angles of the pattern (the concave angle between the base of the rib and its raised section), ensuring a uniform coating thickness without local build-up. This applies to every coat.

NOTE!
Do not paint the panels with rollers or wide block brushes, as these tools do not allow the paint to be properly worked into hard-to-reach areas. When used on ribbed panels, these tools do not ensure even paint distribution and may cause local build-up of the coating. Failure to follow the painting instructions may result in cracks appearing on the paint surface.
In all cases, it is recommended to prepare a representative trial area before carrying out the works in order to assess the final aesthetic effect.

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LIMITATIONS AND APPLICATION RECOMMENDATIONS:

- On newly applied cement and cement-lime renders, installation of decorative panels may begin only after a curing period of at least 4 weeks; on gypsum renders, after at least 2 weeks of curing.
- Application to insufficiently cured or damp substrates may result in detachment, blistering, efflorescence, etc.
- The use of dark colours (HBW < 30) on large façade surfaces exposed to sunlight is not recommended due to increased absorption of solar radiation. To reflect part of the solar heat and thereby reduce the façade surface temperature, paints tinted with cool pigments should be used for selected colours from the BOLIX Spectrum 300+ colour chart (36A, 36B, 37A, 37B, 38A, 38B, 39A and 39B).
- When selecting the paint colour, consider the possible thermal load, which may damage the substrate. Do not apply to surfaces exposed to prolonged contact with water or accumulated snow, or to substrates not protected against capillary rise.
- Before starting the painting work, adequately cover and protect all elements within the work area that are not intended to be painted.
- Plan the area to be painted taking into account the weather conditions, substrate type and available workforce.
- Paint each continuous, separate surface without interruption, working wet-on-wet. Use paint from the same production batch.
- Paints tinted at different tinting centres or originating from different production batches may vary in shade and must therefore always be checked for colour consistency before painting begins.
- During application and drying, protect the surfaces from direct sunlight, precipitation and wind. Use protective mesh on scaffolding. Do not apply to heated surfaces. Adjacent surfaces with different external textures may create the optical impression of different paint shades.
- Spray application may be carried out only in calm weather.
- Low temperature, high humidity and insufficient air circulation extend the drying time compared with the period stated in this Technical Data Sheet.
- After completing the work, wash tools and hands under running water. Remember that the paint is difficult to remove once dry.
- Close partly used paint containers tightly and use the remaining contents as soon as possible.

  The colour of the dried coating may differ from the reference colour due to the texture of the painted surface, the thickness and number of coats applied, and the temperature and humidity conditions during application and drying. Before starting the work, a trial application is recommended to verify that the paint coating colour meets expectations.
- When applying a paint coating to BOLIX RIBBED EFFECT PANEL, exposure of the paint to sunlight before it has dried completely (min. 12 hours under optimum conditions) creates a high risk of delamination at the rib/paint interface and/or cracking of the paint coating. This effect may be visible immediately after painting or may develop over time. The risk is considerably higher with dark paint colours because the painted surface heats up faster under solar radiation. Insufficient curing time between successive coats (min. 12 hours) and excessive paint build-up in the panel grooves may also contribute to cracking of the paint coating.
- Do not use aggressive cleaning agents or excessively high water pressure to clean paint coatings.
- Natural ageing of coatings, including changes in shade, does not constitute a product defect.
- Effects resulting from soiling, environmental deposits or mechanical damage, and any resulting consequences, do not constitute a product defect.

PRECAUTIONS:

Avoid contact with skin and eyes. In case of eye contact, rinse immediately with plenty of water and seek medical advice if necessary. When applying the paint with airless spray equipment, use appropriate personal protective equipment. Do not inhale spray mist. Keep unauthorised persons away from the work area.

TOOLS REQUIRED:

■ Mixer or low-speed drill (400-500 rpm) fitted with a basket or paddle mixer
■ Paint brush, roller or paint spraying equipment.

TECHNICAL DATA:

The following technical data apply at a temperature of +23 (±2)°C and relative air humidity of 50 (±5)%. Under other conditions, the values may vary.

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

Relative air humidity during application and curing:
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:
BOLIX SPEKTRUM 300+ colour chart
other colours made to order based on the customer's sample

Gloss in accordance with PN-EN 1062-1:
matt - G_3

Coating thickness in accordance with PN-EN 1062-1:
$100 < E_3 \leq 200$ µm

Grain size in accordance with PN-EN 1062-1:
< 100 µm - S_1 (fine)

Water-vapour transmission rate in accordance with PN-EN 1062-1:
≥ 350 g/(m²·d)
high - $V_1 > 150$ g/(m²·d)

Equivalent air layer thickness Sd in accordance with PN-EN 1062-1:
≤ 0.06 m

Liquid water permeability in accordance with PN-EN 1062-1:
≤ 0.09 kg/(m²·h$^{0.5}$)
low - $W_3 \leq 0.1$ kg/(m²·h$^{0.5}$)

Crack-bridging ability in accordance with PN-EN 1062-1:
A_0

Carbon dioxide permeability in accordance with PN-EN 1062-1:
C_0

Resistance of the coating to standard wet scrubbing in accordance with PN-C-81913:
> 10,000 cycles

Surface drying time of the paint coating:
min. 2 hours

Time to achieve full wet-scrub resistance in accordance with PN-C-

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81913:
min. 28 days

VOC content:
VOC content limit (cat. A/c/WB): 40 g/l (2010)
The product contains max. 40 g/l VOC.

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

Number of containers per pallet and product net weight:
5 l buckets: 80 / approx. 600 kg (base 30); approx. 588 kg (base 20); approx. 580 kg (base 00); approx. 520 kg (base 00_(STRONG))
10 l buckets: 44 / approx. 660 kg (base 30); approx. 647 kg (base 20); approx. 638 kg (base 00); approx. 572 kg (base 00_(STRONG)); approx. 638 kg (base 00_{RIBBED})
18 l buckets: 24 / approx. 648 kg (base 30); approx. 635 kg (base 20); approx. 626 kg (base 00); approx. 562 kg (base 00_(STRONG))

Shelf life:
24 months - expiry date stated on the packaging

APPROXIMATE COVERAGE:

- 0.18-0.25 l/m² - smooth, non-absorbent substrate, two-coat application
- 0.30-0.40 l/m² - rough substrate (e.g. BOLIX textured renders), two-coat application
- 0.36-0.50 l/m² - BOLIX RIBBED EFFECT PANEL, two-coat application

Coverage depends on the evenness, absorbency and roughness of the substrate. To determine the exact product consumption, it is recommended to carry out a trial application on the substrate concerned.

STORAGE:

Store in undamaged, originally sealed containers at temperatures from +5°C to +25°C. Protect from intense sunlight and frost. Keep out of reach of children. The manufacturer shall not be liable for physical defects resulting from improper transport conditions or incorrect storage.

COMPOSITION:

Aqueous silicone dispersions, fillers, modifiers, biocidal additives and pigments.

BOLIX S.A. guarantees the declared quality of the product but has no control over the type of application or the method of use. BOLIX accepts no responsibility for the work of the Designer or Contractor. All information presented above is provided in good faith and reflects the latest state of knowledge and application technology. It does not replace the professional expertise of the Designer and Contractor, nor does it exempt them from observing good construction practice and occupational health and safety requirements or from verifying and complying with local building standards, fire regulations and application guidelines in force in the country of use. The manufacturer shall not be liable for any application that does not comply with local law. Before purchasing and using the product, verify that its documentation permits the product to be used in accordance with the applicable regulations.

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