

SOLTHERM STC-P

Silicone top coat

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**
- **component of the SOLTHERM ETICS systems with EPS and mineral wool panels.**

USE:

SOLTHERM STC-P the silicone top coat (organosilicone) provides decorative, renovation and protective top coats to masonry walls. It is ideal for primary paint coating and recoating.

Suitable substrates:

- thin-coat renders (including ETICS based on EPS or mineral wool panels)
- 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 SOLTHERM MTC – min. 4 days,
- other SOLTHERM 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 SOLTHERM UB. Fill larger gaps and imperfections with the mortar SOLTHERM LRC. Prior to top coat application, prime the surface with SOLTHERM SNP.

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 top coat and 5% for second) making sure that the thinning proportions are the same for the entire painted area.

APPLICATION:

Apply evenly two top 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 intensely exposed to sunlight, due to increased absorption of solar radiation.
- 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 separate surface area without interruptions. Use the top coat 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.

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

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 top coat bases:
base 30 – approx. 1.50 kg/dm³
base 20 – approx. 1.47 kg/dm³
base 00 – approx. 1.45 kg/dm³

Colour range:
colour chart SOLTHERM SPEKTRUM 300+
other colours made to order according to the customer's colour chart

Gloss level according to EN 2813:
matt - G3 category

Grain size according to EN 1062-1:
<100 µm - S1 category

Touch dry time:
min. 2 h

Full resistance to scrubbing according to PN-C-81913:
min. 28 days

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

Diffusion resistance Sd according to EN 1062-1:
≤ 0.06 m

Vapour permeability according to EN ISO 7783-2:
≥ 350 [g/(m²d)] – category V1

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Water absorption according to EN 1062-3:

≤ 0.09 [kg/(m²h^{0.5})] – category W3

Thinner:

potable water

Dry coating thickness at two coat application

according to EN 1062-1:

100 - 200µm - category E3

VOC content:

VOC limit (cat.:A/c/FW) – 40g/l (2010)

Product contains max. 40 g/l VOC

Packaging:

buckets: 5l, 10l, 18l

No. of containers per pallet and net weight:

5 litre buckets: 80 / ca. 592 kg

10 litre buckets: 44 / ca. 651 kg

18 litre buckets: 24 / ca. 639 kg

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.

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 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.

SOLTHERM guarantees product quality but has no control over its application and use. SOLTHERM 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.