

Sopro Sanitary Silicone

Sopro Sanitary Silicone is an elastic, oxime-free silicone sealant for filling and sealing of perimeter and movement joints in sanitary, living and commercial spaces. This sealant is also particularly suitable for grouting around door and window frames, at vertical angles and perimeter junctions, between wall finishes and flooring, outdoors and underwater (with Sopro Primer UW 25).

- For indoor and outdoor use
- With fungicidal and fungistatic properties to DIN EN ISO 846
- Resistant to weathering, ageing and UV radiation
- Excellent smoothing properties
- Suitable for underwater applications (with Sopro Primer UW 025)
- EMICODE system of GEV (German Association for Control of Emissions in Products for Flooring Installation): EC1^{PLUS} (very-low-emission-plus) rating
- DGNB (German Sustainable Building Council): Top quality level 4, Line 12*
- CE Marked

Field Of Application

A ready-to-use, acetic-curing silicone sealant with fungicidal and fungistatic properties for the elastic filling of perimeter and movement joints in sanitary areas, e.g. between tiling and bathtub, shower tray, wash basin, sink, WC pan or urinals. After curing, the silicone sealant is elastic and resistant to weathering, ageing and UV radiation.

Suitable Substrates

Sopro Sanitary Silicone adheres to a wide range of unprimed substrates. Sopro Primer P 4050 may be used to promote adhesion of the silicone sealant to open-pored or very smooth substrates. Sweep substrate or tile edges where necessary; brush-apply primer to joint faces and allow approx. 30 minutes for solvent to evaporate. Apply sealant to primed joints within 5 hours.

Without primer: glass, tiles and rear tile faces, enamel, polyester (GRP), epoxy lacquer, PVC, alkyd varnish, polyurethane lacquer, uncoated aluminium, acrylic plastics.

With Sopro Primer P 4050: Concrete, aerated concrete, plasterwork/render, masonry.

With Sopro SPM 022 silicone primer for metal: Stainless steel, galvanized steel and chrome, anodized aluminium, enamel, solvent-bearing glazes, PVC.

It is essential to comply with technical data sheets for primer.

Given the wide variety of possible substrate types and factors affecting product use, trial application is recommended. It is essential to comply with technical data sheets and manufacturers recommendations for use of primer. For information regarding substrates other than those specified here, please contact the SMET technical team.

Substrate Preparation

The joint faces must be dry, clean, strong and free from dust and adhesion-impairing substances. Completely remove any oil or grease from smooth, closed-pore substrates using industry-standard solvents, e.g. acetone or spirit. Where necessary, prime in accordance with Primer Table. Cementitious grouts must be fully cured and dry prior to application of silicone. The joint base should be filled with back-up material up to required joint depth.

Caution! Do not use any bituminous, tar-bearing or fibrous materials. Three-side adhesion of Sopro Sanitary Silicone to the substrate should be prevented.

Underwater application: Pretreat mineral substrates and unglazed tiles with Sopro Primer UW 025.

Application

Apply Sopro Sanitary Silicone without bubbling, e.g. using gun, within 5 hours of end of primer flash-off time. Smooth surface of sealant prior to commencement of skinning with Sopro GM 026 smoothing agent using damp spatula or silicone smoother. Working in stages is possible where required.

Note: Suitable measures shall be taken to protect joints against mechanical damage and soiling up to complete curing of sealant surface. Zinc sheet, steel, stainless steel, copper, brass and lead may corrode when exposed to Sopro Sanitary Silicone. Trial sealant application is recommended due to wide variety of possible adjoining covering types. To guarantee impeccable hygiene standards for swimming pool water, this must be treated and disinfected in accordance with DIN 19643-1 (Treatment of water of swimming pools and baths – Part 1: General requirements). To prevent fungal attack, coverings should be thoroughly cleaned once a year, in conjunction with a complete change of water.

Licence: **EMICODE system of GEV (German Association for Control of Emissions in Products for Flooring Installation):** EC1^{PLUS} ('very-low-emission-plus') rating.

Storage

Approx. 24 months, subject to storage in original unopened containers; 7 days once opened; store in cool, dry conditions.

* Based on DGNB (German Sustainable Building Council) criterion "ENV1.2 Local Environmental Impact" (version 2015).

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Disposal Considerations

Waste treatment methods: Recover if possible. In so doing, comply with the local and national regulations currently in force. 91/156/EEC, 91/689/EEC, 94/62/EC and subsequent amendments.

Safety

Exempt from labelling requirements under Regulation (EC) No 1272/2008 (CLP). EUH208 Contains 4,5-dichloro-2-octyl-2H-isothiazol-3-one. May produce an allergic reaction. EUH210 Safety data sheet available on request. Contains biocidal active substance 4,5-dichloro-2-octyl-2H-isothiazol-3-one to protect against fungal attack. Avoid contact with skin. Ensure adequate ventilation during application and curing.

P102 Keep out of reach of children.

P332+P313 If skin irritation occurs: Get medical advice/attention

Technical Information

Skimming Time	Approx. 10 minutes
Curing	Approx. 2 mm/24 hours
Specified times	Apply for normal temperature range of +23 °C and 50 % relative humidity; higher values shorten and lower values lengthen these times
Walkable	After approx. 3 hours
Temperature Resistance	-40 °C to +180 °C
Application Temperature	Between +5 °C and +35 °C
Movement accommodation/ expansion/ contraction	Max. 25 % of joint width
Joint width/ joint depth**	5 mm/5 mm; 6 mm/6 mm; 8 mm/8 mm; 10 mm/8 mm; 12 mm/8 mm; 15 mm/10 mm
Coverage	3.1 m/cartridge for 10/10 mm joints
Tools and Cleaning	Gun and silicone smoother. Clean tools with universal thinner immediately after use; mechanical cleaning required when set
Packaging	Cartridge 310 ml (12 no. in box).

Standard colours: 052 transparent 00; 050 white 10; 037 light grey 16; 036 silver grey 17; 051 grey 15; 035 stonegrey 22; 038 concrete grey 14; 034 sandgrey 18.

Sanitary colours: 033 manhattan 77; 062 jasmine 28; 054 light beige 29; 058 beige 32; 032 jura beige 33; 055 parchment 27; 053 bahama beige 34; 063 anemone 35; 057 caramel 38; 065 brown 52; 031 chestnut 50; 056 bali brown 59; 060 an-thracite 66; 061 black 90.

Intensive colours: 734 deep blue 98; 732 signal red 91; 733 wine red 92.

** As specified in IVD (German Sealant Manufacturers' Association) data sheet no. 3

	Sopro Bauchemie GmbH Biebricher Straße 74 · 65203 Wiesbaden (Germany) 0757
	14 CPR-DE3/0052.1.eng EN 15651-1:2012, EN 15651-2:2012 EN 15651-3:2012, EN 15651-4:2012 Sopro SanitärSilicon 052 One-component, acetate-curing silicone sealant for facades, glazing, sanitary joints and pedestrian walkways Type F EXT-INT CC, G CC, S, PW INT Conditioning: Method A Substrate: Glass Pretreatment: Sopro SPC 023 silicone primer clean
Reaction to fire	Class E
Water tightness and air tightness	
– Tensile properties at maintained extension	Pass (NF)
– Resistance to flow	≤ 3 mm
– Loss of volume	≤ 10 %
– Tear resistance	Pass (NF)
– Tensile properties, i.e. elongation, at maintained extension after immersion in water	Pass (NF)
– Adhesion/cohesion properties after exposure to heat, water and artificial light	Pass (NF)
– Elastic recovery	≥ 60 %
– Tensile properties/secant modulus for use in cold climate areas (-30 °C)	≤ 0.9 MPa
– Tensile properties at maintained extension for use in cold climate areas (-30 °C)	Pass (NF)
– Microbiological Growth	0
Durability	Pass (NF)
Release of chemicals dangerous to the environment and health	Assessed

CE marking to EN 15651 is identical, with the exception of the order number, for all Sopro Sanitary Silicone colours. The CE mark for transparent Sopro Sanitary Silicone is shown here by way of example.



Smet Building Products Limited
 93A Belfast Rd | Newry | Co. Down | BT34 1QH
 T: +44 (0)28 3026 6833 F: +44 (0)28 3026 7619
 E: info@smetbuildingproducts.com