

PRODUCT DESCRIPTION

SILOXA EVE Saver Foil is an Elastic single-component silicone sealant for indoor and outdoor use, with 25% maximum movement tolerance. It has a neutral curing system.

MAIN BENEFITS

- Single-component, silicone based elastic sealant
- Neutral curing – MEKO-free (no 2-butanoneoxime)
- Low odour formulation
- Ageing- and weather-resistant, good UV resistance
- Good adhesion on metals and many plastics, compatible with copper
- Compatible with paints
- With fungicide

PRODUCT TESTS & STANDARDS

- **EN 15651** (CE-labelling): Type F int-ext CC, Type G-CC, Type S
- **DGNB** (Version 2018; ENV 1.2 Risks for the local environment, appendix I, Nr. 12): Fulfils the requirements for quality levels 1 to 3
- **LEED 2009**: Fulfils the requirements of IEQ Credit 4.1 (VOC-content < 50g/l)
- **VOC-classification** (France): A+
- **EN 13501** (fire resistance): Class E

FIELDS OF APPLICATION

For sealing joints and connecting joints in glass, window and metal construction and in the sanitary sector. Also suitable for roofing and plumbing works and in heating, ventilation and air-conditioning engineering.

TYPICAL TECHNICAL DATA

Density (DIN EN ISO 2811-1)	1,01 ± 0,05 g/cm ³
Skin forming time (23°C/50% RH)	app. 8 min
Penetration (DIN 51579 / 5 sec.)	170 ± 30 l/10 mm
Slump (ISO 7390)	≤ 2 mm
Cure rate (within first 24 hours)	app. 2,5 mm
Shore A hardness (DIN 53505)	19 ± 5 units
Tensile strength (ISO 8339-A, 100%)	app. 0,4 N/mm ²
Maximum movement tolerance	25 %
Application temperature (sealant & substrate)	+5 to +35°C
Temperature stability (fully cured sealant)	-40 to +150°C
Fire classification (EN 13501)	E
Shelf life (originally closed packages)	15 months (+5 to +35°C, 50% RH)

Rate of curing depends on temperature, humidity and depth of substrate. The data given refer to tests at standard conditions (23°C / 50% rel. humidity). Under these conditions, a 10 x 10 mm joint will cure in 8 to 14 days. Low temperature, low humidity and joint depth above 15 mm will retard skin formation and curing significantly.

Data given were determined shortly after production, and may slightly vary with increasing age of product and for different colours. They are not meant for specification purposes.

DIRECTIONS FOR USE

Substrate pre-treatment

The substrate must be dry, firm, and free of dust and grease (clean with isopropanol, if necessary). Porous substrates (e.g. concrete, plasterboard and untreated wood) must be primed (see primer table). Before primer application, remove any cement slurry, mould release agents or impregnations. In renovation projects, old sealant, remains of paint and loose material must be fully removed. On coated substrates (paints, lacquers), compatibility to the sealant must be tested.

The joint must always be provided with a suitable, correctly dimensioned joint backing (e.g. PE cord, PE foil) to prevent adhesion on three faces. To avoid contamination and to achieve a precise joint, we recommend masking the joint edges with adhesive tape before primer application and filling.

Joint dimensions

Joint dimensions should be at least 5 x 5 mm for indoor and 10 x 8 mm (width x depth) for outdoor applications. With increasing joint width (up to 30 mm), joint depth should be roughly half the joint width. Make sure that triangular bevels have uniform sides of equal length with at least 7 mm bonding surface on each side.

Tooling

After applying the sealant with a suitable manual, battery-powered or pneumatic caulking gun, the sealant can be smoothed in the joint with water or with a neutral, non-staining water-based smoothing agent and a suitable tool (e.g. jointing trowel). Smoothing is not only recommended for optical reasons, but also establishes close contact and good adhesion to the substrate. Remove excess smoothing agent (risk of schlieren). Any adhesive tape used should be removed immediately after smoothing. We recommend the FS caulking gun and FS jointing trowel.

REMARKS

The function of the sealant can only be guaranteed if correctly applied in accordance with the technical recommendations given in this data sheet and in related standards. Sealant application in situations with strongly fluctuating temperatures (premature stressing of the sealant) must be avoided.

The sealant is compatible with many paints and lacquers. Owing to the large number of different coating systems on the market, own tests concerning adhesion and compatibility have to be performed prior to application. The sealant is not over-paintable.

Especially on powder-coated substrates, adhesion has to be tested carefully, since it can be affected negatively depending on the coating used (may even vary for different colours of the same brand of powder coating).

In contact with bituminous, tar- or plasticizer-releasing substrates (e.g. EPDM, neoprene, butyl), discolouration and/or loss of adhesion may occur.

Good ventilation must be provided during application and curing to allow curing by-products to evaporate. Low temperatures, low humidity and joint depths above 15 mm can retard skin formation and curing significantly.

Exposure to liquid (e.g. acid-based cleaning agents, strongly coloured liquids) or gaseous chemicals (e.g. tobacco smoke, exhausts from other construction materials (e.g. wood, lacquers)) for longer periods can result in discolouration of the product, especially for light colours (white). In general, the mechanical properties of the sealant are not adversely affected.

Products with fungicide give additional protection against mould to the joint. But, this cannot supersede good housekeeping: It's essential to keep the joint clean, dry and free of substances, that may serve as nutrition medium (e.g. soap residues, skin scales).

The product must not be used in aquarium construction, on marble/natural stone, as mirror adhesive, in underwater applications and in areas with direct food contact.

Not suitable for plastics with in general poor adhesion to silicones (e.g. PE, PP, PET) and for two-dimensional bonding.

PACKAGING AND COLOURS INFORMATION

SILOXA EVE Saver Foil is available in 400ml sausages (25 units/box).

Colours: White and clear.

STORAGE AND SAFETY

The shelf life is 15 months in its unopened original packaging, in dry conditions and protected from direct sunlight, at temperatures between +5°C and +35°C.

Use in well-ventilated areas and avoid skin and eye contact. Keep out of the reach of children.

The information regarding the safety of the product is available on safety data sheet (SDS). Before using the product, we recommend to read carefully the SDS and the safety labels.

Our technical advice on application, whether verbal or written or by tests carried out to our best knowledge, true and accurate, but must be considered only as an indication without compromise, also, for what it concerns possible industrial property rights to others. It does not excuse the user to check beforehand the products supplied by us to verify the suitable procedures and expected results and confirm the disposition of the product's latest technical data issued by the manufacturer. The application and use of our products is beyond our control, for which are of the exclusive responsibility of the user. If any responsibility were to be considered ours, this would be only for any damages and for the value of the merchandise supplied by us and used by the customer. Is over understood that we warranty the irreproachable quality of our products in accordance with our General Conditions of Sales and Supply.