

**MAIN ADVANTAGES**

- **Class F-25HM and G-25HM according to EN ISO 11 600**
- **CE classification according to EN 15651-1 class 25HM CC and according to EN 15651-2 class 25HM CC**
- **Excellent resilience against the effects of weather**
- **Rapid development of a surface skin**
- **Non-corrosive hardening process**

PRODUCT INFORMATION**Description**

The SG301 is a neutral, single-component silicon sealant with a high modulus and excellent adhesion on a full spectrum of surfaces. The silicon is highly resilient against compression loads, elongation, transversal and longitudinal extension. The sealant has a long-lasting resilience against the effects imposed by the weather.

Applications

The SG301 is a silicon sealant suitable for double-sided structural glazing (SG) and for bonding in structural façade constructions. The sealant is intended for systems of double-sided bonding. The silicon can be also used for waterproof and airtight sealing of standard expansion joints in new buildings as well as in reconstructions.

Colour

- Black

Packaging

- 310 ml cartridge
- 600 ml sausage

Preparing the base surface

The base surface must be supportive, dry and free of dust and dirt. Non-absorptive surfaces with sealed pores must be cleaned with the AA404 cleaner. If the surface is sensitive, dilute the AA404 with water (try and test the ratio first). To enhance the sealant's absorbance to problematic non-porous surfaces, use the AT150 primer. The silicon usually adheres very well on glass, stainless steel and anodised aluminium.

Application technique

For structural glazing, the sealant must be applied in a workshop. The workshop application will guarantee the best conditions both during the actual application as well as during the hardening process. In-situ application is allowed only when making repairs or when the glazing cannot be done in any other way. When the silicon will get in contact with other materials, chosen must be materials which are according to standard DIN EN 26 92 compatible with silicon 7. Unsuitable are fillers based on oil or tar or having bitumen and materials based on rubber, chloroprene and EPDM. The width-to-thickness ratio should be 2:1, and the minimum thickness should be 10 mm and 6 mm on a porous and non-porous base surface, respectively.

Filling in joints

When extruding the SG301, make sure that no air bubbles develop inside the material. Smooth out the sealant with a suitable shape squeegee, using the AA300 smoothing liquid solution (in the ratio of 1 spoon of the AA300 in 2 litres of water). Apply the diluted AA300 solution to the joint with a sprayer. Smooth out the sealant before a surface skin starts developing. After you have done that, remove the adhesive tape at once to prevent the developing skin from getting damaged. Carefully wipe off any excess AA300.

Cleaning

You can remove the silicon before it hardens with the AA404 cleaner and separator. Material already hardened can be removed only mechanically, with a suitable tool such as a scraper.

Application limitations

Surfaces having tar or bitumen are not suitable for use with the sealant. In contact with some organic elastomers such as EPDM, APTK or neoprene, the sealant might discolour. The silicon cannot be used in places without an air supply because the vulcanisation process needs moisture from the air. Natural stone such as marble or granite might develop on the contact between the base surface and the silicon stains caused by the effect of the substances that the sealant holds. The silicon is not suitable for sealing fish tank joints, in environments in which the sealant might be exposed to abrasion or for use in the food industry, medicine and pharmacology. It may not be painted over. The sealant may not be used for applications outdoor or underground, and in applications in which the sealant surface would be exposed to permanent mechanical loads. It is not recommended to use silicone for bonding mirrors.

SG301

Structural glazing sealant

TREMCO

Storage requirements

When stored in a cool, dry room at temperatures ranging between +5°C and +25°C, the sealant, provided it is kept in the original unopened packaging, can be used for up to 12 months.

Safety guidelines

Detailed information concerning safety is presented in the product's Safety Sheet.

Supplementary information

The above information has been provided to our best knowledge. We reserve the right to change the product formula at any time while it is being sold. The buyer should ask for the latest information about the product. Neither the product application nor the application conditions are under our control, therefore the responsibility for them is yours. We refuse any liability for the information presented in this Data Sheet. The product is delivered exclusively by our General Delivery and Payment Terms and Conditions.

TECHNICAL DATA

	Standard	Property
Reaction system		Neutral hardening system
Volumetric mass	DIN 52 451-A	1.38 g/cu.cm
Shore A	EN ISO 868	40
Permissible reworking	ISO 9047	25%
Development of surface skin,		Approx. 10 minutes
Hardening rate ¹		3 mm / 24 hod.
Tensile strength at 100% elongation	EN ISO 8339	0.84 MPa
Elongation at break	EN ISO 8339	200%
Elastic recuperation at 100% elongation	EN ISO 7389	85%
Reaction to fire		Class E
Resilience to temperature	EN 13 501-1	-40°C to +150°C
Application temperature		+5°C to +40°C
Storage temperature		+5°C to +25°C