

SG300

SILICONE SEALANT

TREMCO
Lasting Performance



KEY BENEFITS SUMMARY

- Exceptional weather resistance: including UV and ozone exposure with an anticipated life of 30 years
- Movement capability: 25%
- No priming:
Good adhesion without primer to most common substrates
- High adhesion strength:
Suited for bonding applications
- Excellent gunnability:
Through wide temperature range
- Stable curing system:
Which assures product reliability
- Quick skin formation

PRODUCT INFORMATION

Description

- SG300 is a versatile, high performance silicone sealant which reacts with atmospheric moisture to produce a flexible silicone rubber, ideal for a wide variety of general purpose joint sealing and glazing applications.
- SG300 provides exceptional cure stability.
- Capable of taking extension, compression, transverse and longitudinal movements, SG300 resists severe environmental conditions such as wind loading, wind driven rain, snow and sleet, and is impervious to acid rain, ozone, ultraviolet light and extreme temperature variations.
- Because of its excellent adhesive qualities, SG300 provides the long-term performance required for demanding weatherproofing applications.
- SG300 is recommended for use on both new construction and renovation projects.

Area of use

The high modulus and outstanding physical properties of SG300 allow for sealing a wide variety of demanding applications, such as:

- Curtain Walling, included cap, toe, heel and air seals
- General sealing/jointing
- Silicone Structural Glazing in 2 sided systems
- A weather seal in butt (2 sided) and stopless (4 sided) glazing systems
- Joint within curtain/window systems

Limitations

SG300 is NOT recommended for:

- Permanent immersion
- Use on materials where migration of constituents can take place (e.g. certain rubbers)

- On applications over tars, asphalt or materials that bleed oil, plasticisers or solvents
- Use where abrasion or physical abuse will be encountered (e.g. trafficable joints)
- Over painting
- In exterior below ground applications
- In horizontal traffic joints
- In applications in airtight enclosures as the sealant requires atmospheric moisture to cure
- On sensitive substrates (e.g. marble, architectural stones, etc.) without prior testing for staining

Note: where staining is a problem, we recommend the use of high performance silicone FA870 or FA875 if suitable for the application in question.

Packaging

- 310 ml cartridge (12 per case)
- 600 ml sausage (20 per case)

Storage

In dry conditions between +5°C and +25°C.

Shelf Life

In original unopened packaging: 12 months

Implementation

- Joint Design Realisation:
Joint design to be in accordance with ISO 11600 and BS 6093.

For the purpose of joint width calculation in BS 6093 the MAF of SG300 is 25%.

Width to depth ratio should be 2:1 subject to a minimum depth of 10mm on porous substrates and 6mm on non-porous substrates.

Sealant width not be less than sealant depth.

For fillet joints the minimum bite should be 10mm for porous substrates and 6mm for non-porous substrates.

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- **Surface Preparation:**
Loose friable material must be removed and arrisses made good.

Joint faces should be clean of dust and free from substances likely to impair adhesion.

Metal surfaces should be decreased with solvent.

- **Priming:**
Tremco SG300 does not require primer on most common substrates; however, some materials such as milled aluminium or surfaces with special characteristics, finishes or coatings (e.g. porous stones), may require a primer.

Details of special substrates should be submitted to tremco illbruck Production Technical Service Department for recommendations.

A site adhesion trial is recommended to ensure substrate compatibility before commencement of main installation.

- **Method of Application:**

Application should be in accordance with BS 8000:16 - "Code of practice for sealing joints in buildings using sealants".

All beads should be tooled immediately after application to ensure firm, full contact with join face.

Use a conventional skeleton gun.

- **Coverage Rate:**

To determine quantity of sealant required, calculate as follows:

$$\begin{array}{r} \text{Gap} \\ \text{Width} \times \text{Depth} \times \text{Length} \\ \text{(cm)} \quad \text{(cm)} \quad \text{(cm)} \end{array} = \begin{array}{r} \text{Total} \\ \text{N}^{\circ} \text{ of} \\ \text{cartridges} \end{array} \quad 310\text{ml}$$

For further guidance on application methods, and materials requirements, please contact tremco illbruck Technical Service Department

- **Cleaning:**

Cleaning of all tools can be accomplished with solvents such as Isopropanol or Methyl Ethyl Ketone (MEK).

TECHNICAL INFORMATION

CHARACTERISTICS	NORMS	VALUES
Composition		Neutral Silicone
Color		Black
Density*	EN ISO 1183-1	1,34
Skiving Formation at 23°C / 50% RH		8-10 minutes
Tack Free Time		Less than 2 hours
Curing Rate		7-14 days 6mm
Movement Capability*	EN ISO 11600	25%
Hardness (Shore A)*	EN ISO 868	40
Tensile Strength*	DIN 53 504	2 Mpa
	EN ISO 8339	0.8-1.0 Mpa
Ultimate Elongation*	DIN 53 504	340%
	EN ISO 8339	130%
Modulus at 100% Elongation*	EN ISO 8339	0.8-1.0 Mpa
Sag		0mm
Application Temperature		+5°C to +35°C
Temperature Resistance		-40°C to +150°C

*typical values

Immediately remove all excess sealant and smear adjacent to the joint with one of above mentioned solvents (use masking tape where appropriate).

Cured sealant can only be removed by abrasion.

Compliance and Approvals

- SG300 Spectrem 2 meets the requirements of EN ISO 11600 G&F 25HM.
- The product is compliant with EN 15651-1 and EN 15651-2.
- The product has the CE marking.

Safety Precautions

The Technical and Safety Data Sheets must be read and understood before the use.

Service

Our team of technicians remains at your disposal for further information.

Note

The information in this document is provided for informational purposes and are non-binding. Technical data are not expressly warranted characteristics of the goods.

Because the variety of material used, the variety of application processes and the variety of conditions of use are beyond our control, preliminary tests are strongly recommended before any order.

The information and illustrations being reproduced on this document are based on features in progress and on our experience at the time of May 2015.

The manufacturer reserves the right of modifying the technical characteristics of its products at any time.

The warranty policy of these products is exclusively governed by our general terms and conditions of sales.

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