

CI/SfB	Yt4
CAW P22	
Uniclass L675:P743	
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SG300 Spectrem 2

Versatile, High Performance Silicone Sealant

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**
- **Standards:**
Tremco SG300 Spectrem 2 meets the requirements of EN ISO 11600 G&F 25HM



PRODUCT INFORMATION

Description

Tremco 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. Tremco SG300 provides exceptional cure stability. Capable of taking extension, compression, transverse and longitudinal movements, Tremco 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, Tremco SG300 provides the long-term performance required for demanding weatherproofing applications. Tremco SG300 is recommended for use on both new construction and renovation projects.

Typical Uses

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

- Curtain Walling, included cap, toe, heel and air seals

TECHNICAL INFORMATION

Property	Test Method	Result
Composition		Neutral Silicone
Specific Gravity	EN ISO 1183-1	1.34 g/cm ³
Skining Formation at 23°C / 50% RH		8-10 minutes
Tack Free Time		Less than 2 hours
Curing Rate		7-14 days 6 mm
Movement Capability	EN ISO 11600	25%
Hardness (Shore A)	EN ISO 868	40
	DIN 53504	2 MPa
Tensile Strength	EN ISO 8339	0.8-1.0 MPa
	DIN 53 504	340%
Ultimate Elongation	EN ISO 8339	130%
	EN ISO 8339	0.8-1.0 MPa
Modulus at 100% Elongation	EN ISO 8339	0.8-1.0 MPa
Sag		0 mm
Application Temperature		+5°C to +35°C
Temperature Resistance		-40°C to +150°C

- General sealing / jointing
- Silicone Structural Glazing in 2 sided systems
- A weather seal in butt (2 sided) and stopless (4 sided) glazing systems
- Joints within curtain / window systems

Colour
Black

Packaging

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

Storage

Store in original unopened packaging, in dry conditions between +5°C and +25°C.

TREMCO

SG300 Spectrem 2

Tremco illbruck Limited
Coupland Road
Hindley Green, Wigan WN2 4HT UK
Tel: 01942 251400
Fax: 01942 251410
Email: uk.info@tremco-illbruck.com
Website: www.tremco-illbruck.co.uk

Shelf Life

12 months when stored in original unopened packaging

Availability

Direct form Tremco illbruck (see back of leaflet for address and telephone details) or local or national distributors. More details also available at www.tremco-illbruck.com.

USAGE GUIDELINES

Joint Design Consideration

- 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 Tremco SG300 is 25%
- Width to depth ration should be 2:1 subject to a minimum depth of 10 mm on porous substrates and 6 mm on non-porous substrates.
- Sealant width not to be less than sealant depth
- For fillet joints the minimum bite should be 10 mm for porous substrates and 6 mm for non-porous substrates.

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 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 joint face.
- Use a conventional skeleton gun.

Coverage Rate

To determine quantity of sealant required, calculate as follows:

Gap	Total	
Width x Depth	x Length	N° of
(cm)	(cm)	Cartridges
310 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 MEK. 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.

Health & Safety Precautions

Product health & Safety Data Sheet must be read and understood before use.

LIMITATIONS

Tremco 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.

Environmental Considerations

The use of Tremco SG300 in the correct application will give an airtight seal in conformity with the requirements laid down in Approved Document L of the Building Regulations for England and Wales.

Technical Service

Tremco illbruck has a team of experienced Technical Sales Representatives who provide assistance in the selection and specification of products.

For more detailed information, service and advice, please call Customer service on +44 (0)191 419 0505.

Guarantee / Warranty

Tremco illbruck products are manufactured to rigid standards of quality. Any product which has been applied (a) in accordance with Tremco illbruck written instructions and (b) in any application recommended by Tremco illbruck, but which is proved to be defective, will be replaced free of charge. No liability can be accepted for information provided in this leaflet although it is published in good faith and believed to be concerned. Tremco illbruck Limited reserves the right to alter product specification without prior notice, in line with Company policy of continuous development and improvement.

Application Examples



2 sided SSG bonding



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