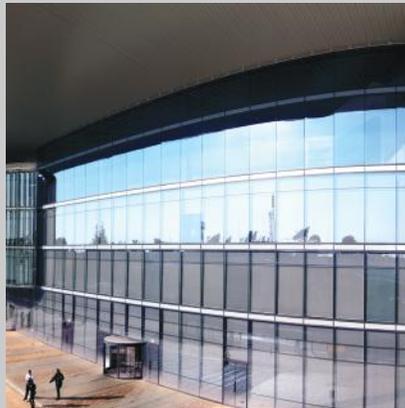


# STRUCTURAL GLAZING & SEALING SOLUTIONS

## Product Selection Guide



# SG300

## STRUCTURAL SILICONE SEALANT



ปริมาณบรรจุ 600 ml.

คุณสมบัติ	ประเภทวัสดุ	ตัวอย่าง
<p><b>Structural Sealant</b> ซิลิโคนสำหรับการใช้งาน Curtain wall 4 Side 2 Side High-Strength ความยืดหยุ่น +/- 25% ง่ายต่อการใช้งาน</p>	<p>กระจก อลูมิเนียม แผ่น Cladding ที่อยู่ในระบบ Curtain</p>	<p>งาน 4 &amp; 2 Sided งานแผงกระจก Curtain Wall เป็นไปได้ทั้ง Weatheroong &amp; Structural</p>

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# SG300

## SILICONE SEALANT

**TREMCO**  
Lasting Performance

### 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.

#### Usage / Purpose

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 and 4 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 air tight 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 (20 per case)  
600 ml foils (20 per case)

#### Colour

Black, Alu Grey

#### Protective Equipment

Use in well ventilated conditions and ensure all recommended protective equipment is worn during handling & use of this product. For full recommendation, refer to safety data sheet.

#### Necessary Tools

- Cartridge gun and sharp knife.

#### Joint Design Considerations

- 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 10 mm on porous substrates and 6 mm on non-porous substrates.
- Sealant width not 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.



### 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

# SG300

## SILICONE SEALANT

**TREMCO**

- Joint faces should be clean of dust and free from substances likely to impair adhesion.
- Metal surfaces should be decreased with solvent.

### Priming

- 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.

### Joint Backing

- In movement joints, back fill the joint with polyethylene joint backing in order to control the depth of sealant and prevent three-sided adhesion.

### Application

- Always carry out a test application prior to installation, to confirm compatibility and suitability for use.
- Application should be in accordance with local codes of practice for sealing joints.
- Apply between +5°C and +35°C using a conventional skeleton gun or powered equipment.
- All beads should be tooled after application to ensure firm, full contact with the joint faces.
- Tooling should commence without delay.

### Coverage

$$\frac{\text{Gap Width} \times \text{Depth} \times \text{Total Length}}{310} = \text{N}^\circ \text{ of cartridges}$$

$$\frac{\text{Gap Width} \times \text{Depth} \times \text{Total Length}}{600} = \text{N}^\circ \text{ of sausages}$$

For further guidance on application methods, and material requirements, please contact tremco illbruck Technical Services Department.

### TECHNICAL DATA

PROPERTY	TEST METHOD	RESULT (Typical Values)
Composition		Neutral Silicone
Specific Gravity	EN ISO 1183-1	1.34
Shore A Hardness	EN ISO 868	40
Skiving Formation	at 23°C, 50% RH	8 - 10 minutes
Tack Free Time	at 23°C, 50% RH	< 2 hours
Cure Rate		7-14 days 6 mm
Sag		0 mm
Tensile Strength	DIN 53 504	2 MPa
Modulus at 100% Elongation	EN ISO 8339	0.8 - 1.0 MPa
Elongation at Break	DIN 53 504 EN ISO 8339	340% 130%
Movement Capability	ASTM D709	25%
Application Temperature		+5°C to +35°C
Service Temperature Range		-40°C to +150°C
Storage		In dry conditions between +5°C and +25°C
Shelf Life		12 months when stored as recommended in original unopened packaging

### Cleaning

Remove excess sealant immediately with a suitable cleaner such as Isopropanol or Methyl Ethyl Ketone (MEK). Ensure surface is solvent resistant before cleaning. Cured sealant can only be removed mechanically.

### 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 is compliant with ASTM C 1184 Standard Specification for Structural Silicone Sealants.

### Health & Safety Precautions

Safety data sheet must be read and understood before use.

### 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 Services on 01942 251400.

### 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 the information provided in this leaflet although it is published in good faith and believed to be correct.

tremco illbruck Limited reserves the right to alter product specifications without prior notice, in line with Company policy of continuous development and improvement.

## Silicone



Product	SG556	
Description	<ul style="list-style-type: none"> <li>◆ ซิลิโคนชนิดแห้งตัวเร็ว ความยืดหยุ่นปานกลาง</li> <li>◆ ค่า ph เป็นกลาง</li> </ul>	
Basic Use	<ul style="list-style-type: none"> <li>◆ ยาแนวกระจกอลูมิเนียมอาคารที่พักอาศัย</li> <li>◆ ยาแนวแผ่นโลหะ ไม้</li> <li>◆ ยาแนวรอยต่อสแตนเลส</li> <li>◆ ยาแนวรอยต่อแผ่น PVC</li> </ul>	
Applicable Standards	ASTM C-920, Type S, Grade NS, Use NT, G, A และ O, CAN/CGSB-19.13-M87 และ U.S. Federal Specification TT-S-00230C (COM-NBS) Class A, AAMA 800-92 (802.3-92, 808.3-92) และ U.S. Federal Specification TT-S-001543A (COM-NBS) Class A	
Tack Free Time	น้อยกว่า 120 นาที	ASTM C-679
Working Time	8-10 นาที	Skin Formation
Flow, sag or slump	0-0.8 มม. (0.03 นิ้ว)	ASTM D-2202 (Full)
<b>สถานภาพทางฟิสิกส์ภายหลังการเซ็ตตัวแล้ว 14 วัน ที่อุณหภูมิ 25 องศาเซลเซียส ความชื้นสัมพัทธ์ 50%</b>		
Hardness (Shore A)	45	ASTM C-661
Tensile Strength at Max. Elongation	1.4 MPa (200 psi)	ASTM D-412
Maximum Elongation	500%	ASTM D-412
50 % Modulus	0.45 Mpa (65 psi)	ASTM D-412
Dynamic Movement	± 30 %	ASTM C-719