SG300
STRUCTURAL SILICONE SEALANT

DESCRIPTION
SG300 is a versatile, high performance single component 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.

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

PACKAGING
310 ml cartridge (25 per case)
600 ml foils (20 per case)

FEATURES & BENEFITS
- Exceptional weather resistance: including UV and ozone exposure with an anticipated life of 30 years
- Movement capability: 25%
- Good adhesion without primer to most common substrates
- High adhesion strength: suited for bonding applications
- Excellent gunnability
- Stable curing system: Which assures product reliability
- Quick skin formation

COLOUR
Alu Grey, Warm Black

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

DIRECTIONS FOR USE
Joint Design Considerations:
- Joint design to be in accordance with ASTM C1401, 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 nonporous substrates.
- Sealant width should 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.
- Joint faces should be clean of dust and free from substances likely to impair adhesion.
- Metal surfaces should be degreased 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.
- 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 +40°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.

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 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.
- This product is compliant with ASTM C920 Standard Specification for Elastomeric Joint Sealants.

WARRANTY

Tremco CPG APAC products are manufactured to rigid standards of quality. Any product which has been applied (a) in accordance with Tremco CPG APAC written instructions and (b) in any application recommended by Tremco CPG APAC, 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 CPG APAC reserves the right to alter product specifications without prior notice, in line with Company policy of continuous development and improvement.

PROPERTY	TEST METHOD	TYPICAL VALUES
Composition Neutral Silicone		Neutral Silicone
Specific Gravity	EN ISO 1183-1	1.37 +/- 0.03
Shore A Hardness	EN ISO 868	40
Skin Formation	at 23°C, 50% RH	< 8 minutes
Tack Free Time	at 23°C, 50% RH	< 20 minutes
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 C719	25%
Application Temperature		+5°C to +40°C
Service Temperature Range		-40°C to +150°C
Storage	In dry conditions between +5°C and +30°C	
Shelf life	12 months if stored as recommended in original unopened packaging	