

SG555

PREMIUM SILICONE WEATHER SEAL

TREMCO
Lasting Performance



KEY BENEFITS SUMMARY

- Excellent adhesion to most construction materials
- Non-polluting, non-stain to most common substrates
- Excellent resistance to weathering, ultra-violet radiation, vibration, moisture, ozone, temperature extremes, and airborne pollutants
- Non-slumping: can be used in vertical and overhead joints
- Good gunnability between +5°C and +40°C

PRODUCT INFORMATION

Description

SG555 is designed for use as a weather seal sealant in applications where a high degree of joint movement is anticipated such as in structurally glazed curtainwall or aluminium cladding. It can also be used as a premium grade sealant in general applications such as expansion joints and external perimeter joints.

Usage / Purpose

SG555 is a single component neutral curing low modulus silicone sealant with good mechanical resistance and adhesion to most porous and non-porous substrates. It has excellent weathering characteristics and will not stain most common substrates. It has a movement accommodation of +/- 50%.

Packaging

300 ml cartridge (25 per case)
500 ml foils (20 per case)

Colour

Black, white and mid-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.

Priming

- SG555 has excellent primerless adhesion to many typical construction materials. For special situations, or if in doubt, please contact tremco illbruck Technical Services Department to discuss your requirements.

Joint Design Considerations

- Joint width should be minimum 5 mm and maximum 20 mm
- Width to depth ratio of SG555 should be 2:1

Surface Preparation

- Joint faces should be clean, dry and free from dust, oil, grease, old sealant and any traces of contaminant which may affect adhesion. Any previously applied sealant must be mechanically removed.
- Thoroughly clean with a suitable cleaning solvent using the two cloth method, using one cloth dampened with the cleaning product to lift contaminants and a second clean dry cloth is used to remove any cleaner residue.
- Apply masking tape to prevent contamination of adjacent surfaces.
- Contact tremco illbruck Technical Services Department for further information if required.

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.

Coverage

Width x Depth (mm)	Linear metres per 300 ml Cartridge
6 x 6	8.3
6 x 10	5.0
10 x 10	3.0
20 x 10	1.5

Fillet Joint Width x Depth (mm)	Linear metres per 300 ml Cartridge
6 x 6	16.7
10 x 10	6.0

Width x Depth (mm)	Linear metres per 500 ml Foil
6 x 6	13.9
6 x 10	8.3
10 x 10	5.0
20 x 10	2.5

Fillet Joint Width x Depth (mm)	Linear metres per 500 ml Foil
6 x 6	27.8
10 x 10	10.0

Cleaning

Remove excess sealant immediately with a suitable cleaner. Ensure surface is solvent resistant before cleaning. Cured sealant can only be removed mechanically.

Please Note

Do not apply below 0°C or while raining. Not suitable for over painting. Not recommended for permanent immersion, use on materials where migration of constituents can take place (e.g. certain rubbers) or food contact. Do not use where abrasion or physical abuse will be encountered (e.g. trafficable joints). Always test before using on sensitive substrates (e.g. marble, architectural stones, etc.). For particularly sensitive substrates, use SG557.

TECHNICAL DATA

PROPERTY	TEST METHOD	RESULT
Appearance		Paste
Specific Gravity		1.26±0.02
Shore A Hardness	ASTM D661	24
Staining	ASTM C510	OK
Tack Free Time	at 23°C, 50% RH	< 20 minutes
Cure Time		2 mm/day
Slump		Non-slump type
Tensile Strength	ASTM D412	0.964 N/mm ²
Modulus at 100% Elongation	ASTM D412	240 kP
Elongation at Break	ASTM D412	1151%
Adhesion/Cohesion Under Cyclic Movement	ASTM D709	± 50%
Adhesion in Peel	ASTM D794	27.2 N
Application Temperature		+5°C to +40°C
Service Temperature Range		-40°C to +150°C
Storage	Store in dry shaded conditions between +5°C and +30°C	
Shelf Life	12 months when stored as recommended in original unopened packaging	

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.