

SG500

Weatherseal Silicone



KEY BENEFITS SUMMARY

- Excellent weathering, ageing and UV resistance.
- Reaction to fire EN 13501-1 Classification B-S1, d0.
- Excellent adhesion to many substrates.
- Movement accommodation factor: +/- 50%
- Compatible with most common construction materials

PRODUCT INFORMATION

Description

Tremco SG500 is a neutral curing one component silicone sealant that has excellent weather ageing and UV resistance properties.

Colour

White, grey, black. Other colors (including translucent) available on request, subject to minimum order quantity.

Packaging

300 ml cartridge (24 per carton),
600 ml sausage (20 per carton).

Preparation

- Joint faces should be clean, dry and free from dust, oil, grease, old sealants and any traces of contamination which may affect adhesion. Any previously applied sealant must be mechanically removed.
- Apply masking tape to prevent contamination of adjacent surfaces.
- Depending on the substrate, IPA / MEK can be used for cleaning the substrates. Clean powder coated surfaces with cleaning solvent. Perform preliminary tests.

Joint Backing

- Closed cell polyethylene is the recommended backing rod material. Care should be taken with open-cell polyurethane backing rods due to potential migration of materials or air entrapment.

Usage / Purpose

SG500 is recommended for construction sealing such as joints in facades, rainscreens and curtain walls; perimeter joints around windows, doors and roof lights; and high movement joints. It can be used for indoor and outdoor applications.

Priming

Excellent adhesion to concrete, glass, brick, ceramic, wood, steel, galvanized steel. Perform preliminary adhesion tests on critical and unknown surfaces.

Application

- Apply SG500 equally and free of air bubbles directly out of the cartridge or sausage onto the surface or into the joint.
- Smooth surface, if necessary, within the film formation time
- If masking tape has been used remove it right after smoothing.

Cleaning

- For surfaces and tools that are contaminated by PU520, we recommend IPA/MEK as cleaner. Totally cured material only can be removed mechanically.

Health & Safety Precautions

- Safety data sheet must be read and understood before use

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TECHNICAL PARAMETER

Physical Properties	Test Method	Result
Specific Gravity @ 25°C, g/ml	ASTM D1475	1.2
Consistency	ASTM C639	Non-Sag
Skin Time, at 23°C / 50% RH, min	ASTM C679	3 – 5
Cure Rate	Internal Test Method	~ 1mm depth / Day
Fire	EN 13501-1	Class B, S1, d0
Peel Strength, N	ASTM C794-93	> 35
Elongation at break, %	ASTM D412	> 500
Hardness: Shore A	ASTM D2240	30
Movement Capability, %	ASTM C719	± 50
Application Temperature (°C)	-	+5 to +50
Service Temperature (°C)	-	-40 to +150
Storage	Store in shaded dry conditions between +5 °C and +25 °C.	
Shelf Life	12 months when stored as recommended in original unopened containers	

Coverage

Joint dimensions (width × depth, mm)	Approx. metres per 300 ml Cartridge	Approx. Metres per 600 ml Sausage
6 × 6	8.30	16.7
8 × 6	6.30	12.5
10 × 8	3.80	7.5
15 × 10	2.00	4.0
20 × 12	1.20	2.5
25 × 15	0.80	1.6
30 × 15	0.60	1.3

Overpainting

Like all silicone sealants, SG500 cannot be overpainted.

Please Note

Contact with bituminous or tar containing surfaces can lead to discoloring. Application to natural stone substrates is recommended only after appropriate testing.



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