

PRODUCT DESCRIPTION

TREMstop S4 Silicone Sealant is a single-part, alkoxy-based fire rated, elastomeric, neutral cure silicone sealant. Provides up to 4 hours fire protection at internal and external building gaps and movement joints.

USAGE/PURPOSE

Joints in compartment walls and floors, gaps between frames and structures, at junctions of different materials. Typical substrate applications include:

- Masonry to Masonry
- Masonry to Timber
- Masonry to Steel

FEATURES & BENEFITS

- Can achieve up to 4 hours in a fire resistance tested joint. (Consult Tremco for recommendations)
- Suitable for gaps and joints up to 50 mm wide.
- Seal ratio at 2:1
- Accredited 3rd party laboratory assessment report to AS 1530.4 - 2014.

PACKAGING

600ml Sausages - 12 per box

COLOURS

Grey

SHELF LIFE

12 months when stored as recommended in original unopened packaging.

STORAGE

Store in a dry cool place in original unopened packaging.

LIMITATIONS

TREMstop S4 is not recommended for:

- Do not apply to damp or contaminated surfaces.
- Continuous water immersion.
- On surfaces or adjacent to materials which may exude oils, resins, plasticizers, tars or solvents that could have a deleterious effect on the adhesive bond.
- Sensitive porous substrates e.g. marble, architectural stone, etc. where the possibility of staining exists without prior testing and approval by Tremco.
- Joints subject to traffic or on surfaces that will contain ponding water.
- Substrates that will be painted. The paint film will not adhere or stretch with the sealant and may crack or peel off.
- In totally confined spaces as the sealant requires atmospheric moisture to cure.



TYPICAL PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	TYPICAL VALUES
Air Permeability	EN1046	Airtight up to 600 Pa
Depth of Sealant Required	Gap Width up to 50mm	50% of width
Assumed Working Life	ETAG 026	10 Years
Specific Gravity		1.39
Shore A Hardness	ISO 868	23
Skin Time	@ 23°C, 50% R.H.	30-40 minutes
Cure Through Time	@ 23°C, 50% R.H.	1-2mm/day
Tensile Strength	ISO 8339	0.7 MPa
Viscosity		Thixotropic
Service Temperature Range		-40°C to +150°C
Movement Capability		50% (+/- 25%)

* Drying times will vary depending on ambient temperature and relative humidity

AS 1530.4 ASSESSMENT REPORT SUMMARY

SEALANT DEPTH (W:D)	150mm THICK FLOOR/ WALL SUBSTRATE	SEAL ORIENTATION	FRL
2:1	ACC-Steel	Unexposed Face	-/120/30
2:1	ACC-Steel	Unexposed Face	-/180/60
2:1	ACC-Steel	Both Faces	-/240/60
2:1	ACC-ACC	Both Faces	-/240/240
2:1	ACC-Softwood/ ACC-Hardwood (760kg/m3)	Both Faces	-/120/120

* Consult Tremco for complete AS1530.4 Assessment Report, to ensure product suitability prior to use

TREMstop S4

JOINT DESIGN CONSIDERATIONS

TREMstop S4 may be used in vertical or horizontal joints designed in accordance with accepted architectural/engineering practices. Joint width should be 4 times the anticipated movement but not less than 12 mm.

SEALANT BACKING

Polyethylene backing rod is recommended for horizontal joints to provide correct joint depth to width ratio, as well we prevent 3-sided adhesion.

SUBSTRATE PREPARATION

- ❑ Joint interfaces must be clean, dry, and free from any foreign matter prior to sealant application. Metal and other non-porous surfaces should be wiped clean with a solvent dampened clean cloth, followed immediately by a dry wipe with a clean, lint-free cloth before the solvent evaporates (i.e. 2 rag method). Preferred solvent is Tremco's IPA Cleaner. Follow all precautions on label during handling of solvent. A trial application of the solvent is recommended to ensure there is no adverse reaction with the substrate.
- ❑ For fire-stopping applications on coated metal, it is recommended that a site adhesion test is performed to determine if further preparation is required (mechanical abrasion of coating).

METHOD OF APPLICATION

- ❑ Ensure that the backer rods friction fitted properly or bond breaker tape has been installed and any primers required have been applied.
- ❑ Slide the sealant into the applicator gun, cut off the very end of the sealant packaging and fit the gun with the nozzle that has been cut to deliver the right bead size.
- ❑ Extrude the TREMstop S4 sealant into the joint, ensuring that no air is trapped in the joint.
- ❑ Fill the joint completely with a proper width-to-depth ratio (2:1), and tool to ensure intimate contact of sealant with joint walls.
- ❑ Tooling the sealant is recommended immediately after the application of the sealant. Dry tooling is always preferred. For a cleaner finish, mask the sides of the joint with tape prior to filling.
- ❑ Should masking be required to prevent contamination of adjacent surfaces, it is recommended that the masking tape be removed immediately after tooling and before the sealant sets.

COVERAGE RATE

(Approximate Linear Metres per 600ml Sausage)

DEPTH	WIDTH				
	5mm	10mm	15mm	20mm	25mm
5mm	24m	12m	-	-	-
10mm	-	-	4m	3m	2.4m
15mm	-	-	-	-	1.6m

- ❑ FILLET JOINTS TRIANGULAR CROSS SECTION
 - 6mm x 6mm = 16
 - 10mm x 10mm = 6

CLEAN UP

Cleaning of all tools, etc. can be accomplished with Tremco's IPA Cleaner while the sealant is in uncured state. On non-porous surfaces; immediately remove all excess sealant and smears adjacent to the joint with one of the above solvents. On porous surfaces; allow the unwanted sealant to develop initial cure and then remove the sealant by abrasion or other mechanical means.

HEALTH & SAFETY PRECAUTIONS

The Safety Data Sheet (SDS) must be read and understood prior to use.

TECHNICAL SERVICE

TREMCO has a team of Representatives who provide assistance in the selection and specification of products. For more detailed information or service and advice, call Customer Service on (02) 9638 2755.

GUARANTEE/WARRANTY

TREMCO products are manufactured to rigid standards of quality. Any product which has been applied (a) in accordance with TREMCO written instructions and (b) in any application recommended by TREMCO, but which is proved to be defective, will be replaced free of charge.

Any information provided by TREMCO in this document in relation to TREMCO's goods or their use is given in good faith and is believed by TREMCO to be appropriate and reliable. However, the information is provided as a guide only, as the actual use and application will vary with application conditions which are beyond our control. TREMCO makes no representation, guarantee or warranty relating to the accuracy or reliability of the information and assumes no obligation or liability in connection with the information. To the extent permitted by law, all warranties, expressed or implied are excluded.