

DESCRIPTION

Spectrem 2 is a one component, neutral cure, medium modulus structural silicone sealant. Spectrem 2 provides excellent cure stability and is suitable for a variety of high performance caulking and glazing applications.

USAGE/PURPOSE

- Tensile bead in two sided structural glazing*.
- Cap beads.
- Toe beads.
- Weather seal.

*All structural glazing applications must be reviewed and approved by Tremco. Contact your local Tremco Representative for more information.

FEATURES & BENEFITS

- With medium modulus, can be used as a structural tensile bead and weather sealant.
- Offering excellent adhesion to a variety of substrates including glass and metal, a single product can be used for a variety of applications on the same job from structural glazing to perimeter caulking and joint filling.
- Resistance to driving rain, ozone, ultraviolet light, and temperature extremes safeguards against water penetration with exceptional weatherability in all climate zones.
- Green Star Compliant
- No mixing required, so product is always ready to use for immediate application with conventional caulking equipment.

PACKAGING

- 300ml Cartridges (30 per case)
- 600ml Sausages (15 per case)

STOCK COLOURS

- Black (Cartridges & Sausages)
- Clear (Sausages Only)

LIMITATIONS

Spectrem 2 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 structural bond of Spectrem 2 to the glass or the anchoring substrate.
- On unfinished or untreated surfaces, impregnated wood, oil-based sealants and some vulcanised rubber or plastic gaskets which could have a deleterious effect on the structural bond of Spectrem 2 to the glass or the anchoring substrate.
- 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.
- Not suitable for 4 sided structural glazing
- Only black silicones are recommended for structural glazing

applications



TYPICAL PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	TYPICAL VALUES
Flow, Sag or Slump	ASTM C639	0 mm
Sag	ASTM D2202	0 - 0.1 mm
Tack Free Time @ 23°C, 50% R.H.	ASTM C679	20 to 40 minutes
Skin Time @ 23°C, 50% R.H.		10 to 15 minutes
Cyclic Movement	ASTM C719	+/- 50%
Elongation	ASTM D412	235 - 260%
Shore A Hardness	ASTM C661	37 - 40
Peel Strength - Aluminium	ASTM C794	3.86 kN/m
Peel Strength - Glass	ASTM C794	2.81 kN/m
Staining of Porous Substrates - White Marble	ASTM C1248	No Staining
Tear Strength, die ("C")	ASTM D624	6.14 - 7.02 kN/m
Tensile Strength at 100% Elongation	ASTM C1135	0.62 - 0.69 MPa
Tensile Strength at Max Elongation	ASTM D412	1.52 - 1.59 MPa
Ultimate Elongation	ASTM C1135	261%
Ultimate Tensile Strength	ASTM C1135	0.85 MPa

SHELF LIFE

12 months when stored as recommended in original unopened packaging.

STORAGE

Store in original, undamaged packaging in dry conditions with temperature between 5-25°C.

JOINT DESIGN CONSIDERATIONS

- ❑ For structural glazing application (i.e. tensile bead), please contact Tremco for more information on prior testing that is recommended to be conducted prior to actual installation of Spectrem 2.
- ❑ Spectrem 2 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 6 mm.

SEALANT BACKING

- ❑ Closed cell polyethylene backing rod is recommended for horizontal joints to provide correct joint depth to width ratio, as well we prevent 3 sided adhesion. Open cell backing rod is recommended for vertical installation to allow for faster curing.
- ❑ Where depth of joint will prevent the use of backer rod, an adhesive backed bond breaker tape should be used to prevent three-sided adhesion. All backing should be dry at the time of sealant application.

SUBSTRATE PREPARATION

- ❑ Substrates for every structural silicone glazed project should be submitted for adhesion and compatibility testing by Tremco prior to commencement of glazing. The surface preparation (cleaning method and primer if required) for each structural glazing project will be recommended based on production run sample substrates supplied by the customer and based on laboratory testing performed by Tremco.
- ❑ Joint interfaces must be clean, dry, and free from any foreign matter prior to sealant application. Metal, glass 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.

PRIMING

Some substrates with special surface characteristics, finishes, or coatings may require a primer to optimise adhesion performance.

- ❑ For structural glazing, the priming requirement will be established by Tremco during testing.
- ❑ For façade seals, Tremco recommends the following primers if a primer is necessary:
 - Non-Porous substrates i.e. metal, plastic - TREMprime SG010 Primer
 - Porous substrate i.e. concrete, stone - TREMprime Porous Primer

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

METHOD OF APPLICATION

- ❑ Ensure that the backer rod is 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 Spectrem 2 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.

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 or fax (02) 9638 2955.

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.