



Spectrem 2

Single-Component, Neutral-Cure Silicone Sealant for 2-Sided Structural Glazing

DESCRIPTION

Spectrem 2 is a high-performance, single-component, neutral-cure, medium-modulus silicone sealant.

BASIC USES

Spectrem 2 is ideal for a variety of perimeter caulking and glazing applications, including 2-sided structural glazing. Spectrem 2 may be used on substrates such as aluminum, glass, steel, painted metal, plastic, stone, concrete and brick.

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 2-sided 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.
- Wide variety of colors to choose from with custom colors and color matching also available for a particular project.
- No mixing required, so product is always ready to use for immediate application with conventional caulking equipment.
- Greenguard Gold certification ensures safety for use in the most sensitive indoor environments including hospitals and schools.

PACKAGING

- 300 ml cartridges
- 600 ml sausages
- 7.6 L and 17 L pails
- 208.2 L drums

All colors are not available in all package sizes.

COLOUR

Aluminum Stone, Anodized Aluminum, Black, Bronze, Gray, Limestone, Off White, Precast White, White, Clear and Light Bronze

LIMITATIONS

- Do not apply to damp or contaminated surfaces.
- Use with adequate ventilation.
- Not intended for continuous water immersion.
- Only black silicones are recommended for structural glazing applications.

DIRECTIONS FOR USE

Surface Preparations

Surfaces must be sound, clean, and dry. Contact surfaces should be free of loose dirt, dust, oils, and any other contaminants. Tremco recommends that air temperatures be 5 °C or above before applying any sealant. If colder weather is imminent, please contact Tremco CPG APAC Technical representative for details.

Application

Spectrem 2 is easy to apply with conventional caulking equipment. Fill joint completely and tool. At 23.9 °C, 50% RH, a durable skin will form typically within fewer than 10 minutes.

Tooling

Tooling is recommended immediately after application to ensure firm, intimate contact with the joint interface. Dry tooling is preferred.

Joint Design

May be used in any joint designed in accordance with accepted architectural/engineering practices. Joint width should be 4 times anticipated movement, but not less than 6 mm wide.

Joint Backing

Approved structural glazing tapes, such as SGT 900 Series Tape, compatible silicone, or SCR spacer gaskets are approved to promote properly dimensioned tensile beads when used in 2-sided structural glazing applications.

When Spectrem 2 sealant is used in non-structural glazing applications, closed-cell polyethylene backer rod is preferred as joint backing to control depth of sealant bead. Where depth of joint will prevent use of joint backing, an adhesive-backed polyethylene tape should be installed to prevent three-sided adhesion. Joint backing must be dry at time of sealant application.

CLEANING

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

SEALANT DIMENSIONS

Expansion joints: The minimum joint width (W) and sealant contact depth (C) of any silicone sealant application is 6.35 mm by 6.35 mm. It is recommended that the sealant joint depth (D), when measured from the face of the sealant bead to the crown of the backer rod, be equal to one-half the sealant joint width (W), known as 2:1 width-to-depth joint ratio. For silicone sealants, the minimum sealant joint depth (D) at crown of backer rod is 3 mm and the maximum sealant joint depth at crown of backer rod is 13 mm. For joints that are wider than 25 mm, please contact Tremco CPG APAC technical representative for additional support.

Window perimeter joints: For fillet beads, or angle beads around windows and doors, the sealant should exhibit a minimum sealant contact depth [C] of 6.34 mm onto each substrate. Proper joint backing or bond breaking must be implemented to allow the sealant to perform when exposed to joint movement.

Structural Glazing: Special consideration must be taken when using Spectrem 2 in structural glazing applications; therefore, the above sealant dimension guidelines do not apply in these applications. Consult Tremco CPG APAC Technical Services for structural glazing reviews and recommendations.

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	RESULT
<i>As Supplied:</i>		
Flow, sag or slump inches	ASTM C639	Nil
Sag	ASTM D2202	0 mm to 0.1 mm
Tack free time	ASTM C679	20 to 40 min
Tooling Time	Skin Formation	10 to 15 min
<i>As Cured: After 14 days at 25 °C, 50% RH</i>		
Cyclic Movement	ASTM C719	±50%
Elongation	ASTM D412	235 to 260%
Hardness (Shore A)	ASTM C661	37 to 40
Peel Strength Aluminum and Glass	ASTM C794	2.81 to 3.86 kN/M
Staining of Porous Substrates White Marble Primed & Unprimed	ASTM C1248	No Stain
Tear strength, die ("C")	ASTM D624	6.14 to 7.02 kN/M)
Tensile Strength at 100% Elongation	ASTM C1135	0.62 to 0.69 MPa
Tensile Strength at Max Elongation	ASTM D412	1.52 to 1.59 MPa
<i>As Cured: After 21 days at 25 °C, 50% RH</i>		
Ultimate Elongation	ASTM C1135	> 250%
Ultimate Tensile Strength	ASTM C1135	0.85 MPa

To find your local office address and contact details, visit

www.tremcocpg-asiapacific.com

REV19/10/20