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

Product 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 and 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.

Availability
Immediately available from your local Tremco Sales Representative, Tremco distributor or warehouse.

Packaging
10.1-oz (300-mL) cartridges
20-oz (600-mL) sausages
2-gal (7.6-L) and 4.5-gal (17-L) pails
55-gal (208.2-L) drums

All colors are not available in all package sizes. Contact Tremco Customer Service for more information.

Colors
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.

Substrate Preparation
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 40 °F (5 °C) or above before applying any sealant. If colder weather is imminent, please refer to the Tremco Guide for Cold Weather Applications at www.tremcosealants.com.

Spectrem 2 meets or exceeds the requirements of the following specifications:
- ASTM C920 Type S, Grade NS, Class 50, Use NT, M, G, A and O
- ASTM C1184 Standard Specifications for Structural Silicone Sealants
- U.S. Federal Specification TT-S-001543A (COM-NBS) Class A
- CAN/CGSB 19.13-M87
- U.S. Federal Specification TT-S-00230C (COM-NBS) Class A, Type II
- Black meets all of AAMA 802.3-92 (Type I and II), 805.2-94 (Group C), and 808.3-92
- Conforms to ASTM C1184 Use G and O (Aluminum)

Application
Spectrem 2 is easy to apply with conventional caulking equipment. Fill joint completely and tool. At 75 °F (23.9 °C), 50% RH, a durable skin will form typically within fewer than 10 minutes. Please visit www.tremcosealants.com for complete application instructions.

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 1/4” (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 thre-sided adhesion. Joint backing must be dry at time of sealant application.

www.tremcosealants.com
**Sealant Dimensions**

W = Sealant width, D = Sealant depth, C = Contact area.

Expansion joints: The minimum joint width (W) and sealant contact depth (C) of any silicone sealant application is 1/4” by 1/4” (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 1/8” (3 mm) and the maximum sealant joint depth at crown of backer rod is ½” (13 mm). For joints that are wider than 1” (25 mm), contact Tremco’s technical services or the Tremco sales representative nearest to the application site 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 1/4” (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 Technical Services for structural glazing reviews and recommendations.

**Clean Up**

Tooling is recommended immediately after application to ensure firm, intimate contact with the joint interface. Dry tooling is preferred. Cleaning can be accomplished with solvents such as IPA, Xylene, Toluene or MEK while sealant is in an uncured state.

**Warranty**

Tremco warrants its Products to be free of defects in materials, but makes no warranty as to appearance or color. Since methods of application and on-site conditions are beyond our control and can affect performance, Tremco makes no other warranty, expressed or implied including warranties of MERCHANTABILITY and FITNESS FOR A PARTICULAR PURPOSE, with respect to Tremco Products. Tremco’s sole obligation shall be, at its option, to replace, or refund the purchase price of the quantity of Tremco Products proven to be defective and Tremco shall not be liable for any loss or damage.

Please refer to our website at www.tremcosealants.com for the most up-to-date Product Data Sheets.

**NOTE:** All Tremco Safety Data Sheets (SDS) are in alignment with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) requirements.
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### TYPICAL PHYSICAL PROPERTIES

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>TEST METHOD</th>
<th>TYPICAL VALUES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow, sag or slump inches</td>
<td>ASTM C639</td>
<td>Nil</td>
</tr>
<tr>
<td>Sag</td>
<td>ASTM D2202</td>
<td>0&quot; to 0.03&quot; (0 mm to 0.1 mm)</td>
</tr>
<tr>
<td>Tack free time</td>
<td>ASTM C679</td>
<td>20 to 40 min</td>
</tr>
<tr>
<td>Tooling Time</td>
<td>Skin Formation</td>
<td>10 to 15 min</td>
</tr>
<tr>
<td>As Cured: After 14 days at 77 °F (25 °C), 50%RH</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cyclic Movement</td>
<td>ASTM C719</td>
<td>±50%</td>
</tr>
<tr>
<td>Elongation</td>
<td>ASTM D412</td>
<td>235 to 260%</td>
</tr>
<tr>
<td>Hardness (shore A)</td>
<td>ASTM C661</td>
<td>37 to 40</td>
</tr>
<tr>
<td>Peel Strength Aluminum and Glass</td>
<td>ASTM C794</td>
<td>16 to 22 pli (2.61 to 3.86 kN/M)</td>
</tr>
<tr>
<td>Staining of Porous Substrates White Marble</td>
<td>ASTM D1248</td>
<td>No Stain</td>
</tr>
<tr>
<td>Primed &amp; Unprimed</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tear strength, die (&quot;C&quot;)</td>
<td>ASTM D624</td>
<td>35 to 40 pli (6.14 to 7.02 kN/M)</td>
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<tr>
<td>Tensile Strength at 100% Elongation</td>
<td>ASTM C1135</td>
<td>90 to 100 psi (0.62 to 0.69 MPa)</td>
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<tr>
<td>Tensile Strength at Max Elongation</td>
<td>ASTM D412</td>
<td>220 to 230 psi (1.52 to 1.59 MPa)</td>
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<tr>
<td>As Cured: After 21 days at 77 °F (25 °C), 50%RH</td>
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<tr>
<td>Ultimate Elongation</td>
<td>ASTM C1135</td>
<td>261%</td>
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<tr>
<td>Ultimate Tensile Strength</td>
<td>ASTM C1135</td>
<td>123 psi (0.85 MPa)</td>
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**0319/SPEC2DS-ST**

Please refer to our website at www.tremcosealants.com for the most up-to-date Product Data Sheets.

[Tremco Commercial Sealants & Waterproofing](https://www.tremcosealants.com)