

Spectrem® 2 High-Performance Silicone Sealant

Product Description

Spectrem® 2 is a medium-modulus, one-part, high-performance, neutral-cure silicone sealant ideal for a variety of perimeter caulking and glazing applications.

Basic Uses

- Two-sided structural glazing
- Perimeter and weather seals
- CAP, Heel and Toe Beads
- Curtainwall or window joints

Spectrem 2 may be used on substrates such as aluminum, glass, steel, painted metal, plastic, stone, concrete and brick. Spectrem 2 exhibits primerless adhesion to many common building materials.

"All" structural glazing applications must be reviewed and approved by Tremco Technical Service prior to the application of Spectrem 2.

Applicable Standards

Spectrem 2 meets or exceeds the requirements of the following specifications:

- ASTM C 920 Type S, Grade NS, Class 50, Use NT, M, G, A and O

- ASTM C 1248
- U.S. Federal Specification TT-S-001543A (COM-NBS) Class A
- U.S. Federal Specification TT-S-00230C (COM-NBS) Class A, Type II
- CAN/CGSB 19.13-M87
- Black meets all of AAMA 802.3-92 (Type I and II), 805.2-94 (Group C) and 808.3-92

Packaging

1/12 gallon (300 mL) cartridges, 20 oz. (600 mL) sausages, 2 gallon (7.6 L) and 4.5 gallon (17 L) pails and 55 gallon (208.2 L) drums.

**SEALANT · WATERPROOFING
& RESTORATION INSTITUTE**

Issued to: Tremco Incorporated
Product: Spectrem 2 Medium Modulus Silicone Sealant

C719: Pass Ext:+50% Comp:-50%

Substrate: Unprimed glass and aluminum

C661: Rating 40

Validation Date: 8/11/2008 - 8/10/2013

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SEALANT VALIDATION
www.swronline.org

TYPICAL PHYSICAL PROPERTIES

Property	Test Method	Typical Value
As Supplied:		
Tack-free time	ASTM C 679	20-40 minutes
Sag	ASTM D 2202	0-0.1mm (0-0.03")
Tooling Time (skin formation)		7-15 minutes
As Cured: After 14 days at 77°F (25°C) and 50% R.H.		
Hardness (Shore A)	ASTM C 661	37-40
Tensile strength at maximum elongation	ASTM D 412	1.52-1.59 MPa (220-230 psi)
Elongation	ASTM D 412	235-260%
Tensile Strength at 100% elongation	ASTM C 1135	0.62-0.69 MPa (90-100 psi)
Tear Strength	ASTM D 624	6.14-7.02 kN/m (35-40 pli)
Peel Strength Aluminum, Glass	ASTM C 794	2.81-3.86 kN/m (16-22 pli)
Staining of Porous Substrates		
White Marble Primed & Unprimed	ASTM C 1248	No Stain
Cyclic movement	ASTM C 719	±50%
As Cured: After 21 days at 77°F (25°C) and 50% R.H.		
Ultimate Tensile Strength	ASTM C 1135	.85 MPa (123 psi)
Ultimate Elongation	ASTM C 1135	261%

NOTE: The foregoing information is published as general information only. The listed properties and performance characteristics are approximate values and are not part of the product specification.

Standard Colors

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

INSTALLATION

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 inch (6.4mm) wide.

Joint Dimensions

For joints 1/4 inch (6.4mm) to 1/2 inch (12.7mm) wide, the width to depth ratio should be equal. Joints 1/2 inch (12.7mm) wide or greater should have a depth of 1/2 inch (12.7mm). Minimum joint size is 1/4 inch by 1/4 inch (6.4mm by 6.4mm).

Surface Preparation

For good adhesion, the joint interface must be sound, clean and dry. Depending on the substrates, the joint surface may require a thorough wire brushing, grinding, sandblasting, solvent washing and/or primer.

Tooling & Cleaning

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 Xylene, Toluene or MEK while sealant is in an uncured state.

Joint Backing-

Bond Breaking Tape

Closed cell polyethylene backer rods are 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.

Application

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

Maintenance

Damaged sealant can be repaired. Consult your Tremco Distributor or Representative for repair procedures.

Availability

Immediately available from your local Tremco Field Representative, Tremco Distributor or Tremco Warehouse.

Limitations

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

Warranty

Tremco warrants its Sealants to be free of defects in material, 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 Sealants. Tremco's sole obligation shall be, at its option, to replace or refund the purchase price of the quantity of Sealant proved 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.

