

Spectrem® 2

High-Performance Silicone Sealant

Product Description

Spectrem® 2 is a medium-modulus, single-component, 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
- Curtain wall 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 Services prior to the application of Spectrem 2.

Applicable Standards

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 C1248
- 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-gal (300-mL) cartridges; 20-oz (600-mL) sausages; 2-gal (7.6-L) and 4.5-gal (17-L) pails and 55-gal (208.2-L) drums

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

SEALANT · WATERPROOFING & RESTORATION INSTITUTE

Issued to: Tremco Incorporated
Product: Spectrem 2 Silicone Sealant

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

Substrate: Unprimed glass and anodized aluminum

Validation Date: 9/16/13 – 9/15/18

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SEALANT VALIDATION
www.swronline.org

TYPICAL PHYSICAL PROPERTIES

Property	Test Method	Typical Value
As Supplied:		
Tack-free time	ASTM C679	20 to 40 min
Sag	ASTM D2202	0" to 0.03" (0 mm to 0.1 mm)
Tooling Time (skin formation)		10 to 15 min
As Cured: After 14 days at 77° F (25° C) and 50% R.H.		
Hardness (Shore A)	ASTM C661	37-40
Tensile strength at maximum elongation	ASTM D412	220 to 230 psi (1.52 to 1.59 MPa)
Elongation	ASTM D412	235 to 260%
Tensile Strength at 100% elongation	ASTM C1135	90 to 100 psi (0.62 to 0.69 MPa)
Tear Strength	ASTM D624	35 to 40 pli (6.14 to 7.02 kN/m)
Peel Strength Aluminum, Glass	ASTM C794	16 to 22 pli (2.81 to 3.86 kN/m)
Staining of Porous Substrates		
White Marble Primed & Unprimed	ASTM C1248	No Stain
Cyclic movement	ASTM C719	±50%
As Cured: After 21 days at 77° F (25° C) and 50% R.H.		
Ultimate Tensile Strength	ASTM C1135	123 psi (0.85 MPa)
Ultimate Elongation	ASTM C1135	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" (6 mm) wide.

Joint Dimensions

For joints 1/4" to 1/2" wide (6 mm to 13 mm), the width-to-depth ratio should be equal. Joints 1/2" wide (13 mm) or greater should have a depth of 1/2" (13 mm). Minimum joint size is 1/4" x 1/4" (6 mm x 6 mm).

Surface 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.

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 min. 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 Sales Representative, distributor or 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 Products 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 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.

