

Spectrem 3

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Product Description

Spectrem® 3 is a single-component, neutral-cure, low-modulus, construction grade sealant with patented advanced silicone technology. Non-staining and low polar attraction to dirt increases aesthetic appearance.

Basic Uses

Spectrem 3 has a patented chemistry that has been specifically formulated to seal porous stone, EIFS, metal panels, masonry and pre-cast concrete joints.

Features and Benefits

- A 20-yr non-stain warranty when pre-approved and tested by Tremco in accordance with ASTM C1248.
- Low polar attraction to dirt makes buildings easier to clean and maintain.
- Low-modulus and low Shore A hardness reduce chance of EIFS substrate failures when compared to applications with medium-modulus sealants.
- Primerless adhesion to most porous substrates.
- Extended tooling time and workability in high temperatures.
- Ease of use reduces the risk of application failure.
- Matte finish affords an aesthetically pleasing appearance with EIFS and stone substrates.
- No cure inhibition with Spectrem 1, Spectrem 2, Dymonic® FC when applied "wet-to-wet," minimizing the chance of leakage when sealants abut at glazing and other façade intersects.
- Low-VOC and zero-solvent content satisfies the LEED Indoor Environmental Criteria.
- 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 Tremco Warehouse.

Packaging

10.1-oz (300-mL) cartridges

20-oz (600-mL) sausages

All colors are not available in all package sizes. Special colors and packaging available upon request. Minimum order requirements exist. Contact Tremco Customer Service for more information.

Colors

Adobe Tan, Aluminum Stone, Anodized Aluminum, Black, Bronze, Buff, Champagne, Charcoal, Dark Bronze, Dusty Rose, Gray, Hartford Green, Ivory, Light Bronze, Limestone, Off White, Precast White, Rustic Brick, Sandstone, White.

Limitations

- Do not apply to damp or contaminated surfaces.
- Use with adequate ventilation.
- Not intended for continuous water immersion.

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.

Applicable Standards

Spectrem 3 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
- ASTM C1382
- U.S. Federal Specification TT-S-001543A Class A
- U.S. Federal Specification TT-S-00230, Type II Class A
- CAN/CGSB 19.13-M87
- EIMA Test Method 300.01

Application

Spectrem 3 is easy to apply with conventional caulking equipment. Fill joint completely and tool. At 75 °F (23.9 °C), 50% RH, tooling time is 1 hr. Please visit www.tremcosealants.com for complete application instructions.

Priming

If priming is deemed necessary use Tremco® Silicone Porous Primer for porous substrates and Tremco Silicone Metal Primer for non-porous substrates.

Joint Design

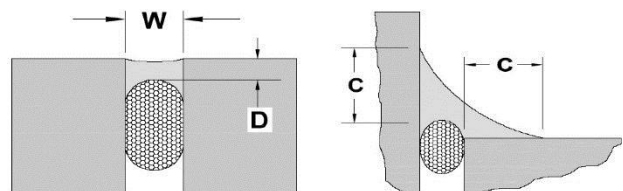
May be used in joints designed in accordance with accepted architectural/engineering practices. Joint width should be 4 times anticipated movement, but not less than 1/4" (6 mm) wide.

Joint Backing

Closed-cell polyethylene backer rods are preferred as a joint backing material 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 the time of sealant application.

Sealant Dimensions

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



Expansion Joints- The minimum width and depth of any sealant application should be 1/4" x 1/4" (6 mm x 6 mm). The depth (D) of sealant may be equal to width (W) of joints less than 1/2" wide. For joints from 1/2" to 1" (13 mm to 25 mm) wide, the sealant depth should be approximately one-half of the joint width. The maximum depth (D) of any sealant application should be 1/2" (13 mm). For Joints that are wider than 1" (25 mm) contact Tremco Technical Services or your local Tremco Sales Representative.

Window Perimeter- For fillet beads, or angle beads around windows and doors, the sealant should exhibit a minimum surface contact area [C] of 1/4" (6 mm) onto each substrate, with provisions for release at the heel of the angle using backer rod or bond breaker tape.

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

Spectrem® 3

Single-Component, Neutral-Cure, Non-Staining Silicone Sealant

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.

TYPICAL PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	TYPICAL VALUES
As Supplied:		
Tack free time	ASTM C679	2 hr
Tooling Time	Skin Formation	40 min
As Cured: After 14 days at 77 °F (25 °C), 50%RH		
Joint Movement Capability Extension Compression	ASTM C719	±50%*
Hardness (shore A)	ASTM C661	15
Peel Strength Aluminum and Glass	ASTM C794	25 to 35 pli minimum
Application Temperature Range		
Stain & Color Change	ASTM C510 TT-S-001543A	No Stain
Staining of Porous Substrates White Marble Primed & Unprimed	ASTM C1248	No Stain
Tear strength, die ("C")	ASTM D624	25 to 30 pli minimum
Tensile Strength at Max Elongation	ASTM D412	155 psi
Tensile Strength at Max Elongation 100% Modulus	ASTM D412	55 psi
Tensile Strength at Max Elongation 50% Modulus		40 psi
Tensile Strength at Max Elongation 25% Modulus		25 psi

*Modified ASTM C719 test



1017/SPEC3DS-ST Please refer to our website at www.tremcosealants.com for the most up-to-date Product Data Sheets.

Tremco Commercial Sealants & Waterproofing

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Boucherville QC J4B 7L8
514.521.9555

***Spectrem*[®] 3**

Standard Colors

Colors shown are approximate and may not reflect the shade precisely. Different lighting conditions can influence color appearance, for truer color please view in daylight. Colors are not stocked in all available package types. Minimum order quantities will apply for custom colors and alternative packaging. For more information, please contact Tremco Customer Service.

	PRECAST WHITE
	ANODIZED ALUMINUM
	IVORY
	GRAY
	OFF WHITE
	LIMESTONE
	SANDSTONE
	BUFF
	DUSTY ROSE
	ADOBE TAN
	CHAMPAGNE
	ALUMINUM STONE
	LIGHT BRONZE
	RUSTIC BRICK
	CHARCOAL
	HARTFORD GREEN
	BRONZE
	DARK BRONZE
	BLACK
	WHITE

TREMCO®

Spectrem® 3

Spectrem® 3

Single-Component, Non-Staining Sealant with Advanced Silicone Technology

Spectrem® 3 is a single-component, neutral-cure, low-modulus, construction grade sealant with Advanced Silicone Technology. Spectrem 3 is non-staining and has low polar attraction to dirt.

Applicable Standards

ASTM C 920 Type S, Grade NS, Class 50*, Use NT, M, G, A, and O; ASTM C1248; ASTM C1382;
CAN/CGSB-19.13-M87; U.S. Federal Specification TT-S-001543A Class A;
U.S. Federal Specification TT-S-00230 Class A, Type II; EIMA Test Method 300.01.

*Modified ASTM C719 test

Tremco Commercial Sealants & Waterproofing

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1451 Jacobson Avenue, Ashland, OH 44805 // Phone: 419.289.2050 // 800.321.6457

11177/SPEC3DS-ST

We certify that Spectrem® 3 manufactured by Tremco Incorporated, Cleveland, Ohio has been tested against ASTM C 920, Standard Specification for Elastomeric Joint Sealants and does conform to the specification requirements and is classified as follows:

Type:	S	(Single Component)
Grade:	NS	(Non-sag)
Class:	50	(+/- 50% joint movement)
Use:	NT	(Non-traffic)
	M	(Mortar)
	G	(Glass)
	A	(Aluminum)
	O	(Other)

Spectrem 3 has been tested and passed ASTM C 1382, "Standard Test Method for Determining Tensile Adhesion Properties of Sealants when used in Exterior Insulation and Finish Systems (EIFS) Joints." Third party verification is available upon request.

Spectrem 3 passes EIMA Test Method 300.01.

Spectrem 3 is listed to AAMA 800-92, Voluntary Specifications and Test Methods for Sealants, for Section 1.1, Back Bedding Glazing Compounds, 802.3 Types I and II and Section 1.4, Exterior Perimeter Sealing Compound, 808.3.

We further certify that Spectrem 3 conforms to the requirements of the following Federal Specifications:

TT-S-00230C (COM-NBS), Type II, Class A

TT-S-001543A (COM-NBS) Class A

Spectrem 3 meets CAN/CGSB-19.13-M87.

Although Spectrem 3 is not NSF registered, or previously authorized by USDA, it does meet the requirements for use in Federally inspected food processing facilities provided it is not used in areas where food is being processed, prepared or packaged. The material must also be applied in a manner which prevents any direct or indirect contamination of food. Additionally, before any food product can be placed in the area of treatment, the sealant must be allowed to cure according to manufacturer's recommendations and the area should be sufficiently free of odor to prevent food contamination.



January 12, 2017

To Whom It May Concern:

RE: Spectrem 3—Green Building Product Information (LEED Information)

Tremco Incorporated is an organization that is committed to quality, our employees, and our environment. We are responsive to both internal and external customers, and we pledge to treat everyone with good stewardship and respect.

Tremco Incorporated certifies the following for Spectrem 3:

Building Product Disclosure and Optimization:

Spectrem 3 is manufactured in Toronto, Ontario, Canada.

No single extracted material is used to produce the majority of this product.

Recycled content for Spectrem 3 is not available, and for the purposes of LEED reporting should be assumed to be zero.

Low Emitting Materials - VOC Content Information:

Spectrem 3 is a silicone sealant with a VOC content of 18g/L equaling 1% as applied/mixed. As such, VOC levels are lower than the limits set by SCAQMD rule 1168.

Note: VOC content values are as reported for the highest VOC content color for all Spectrem 3 colors. Other colors may have a lower VOC content reported on the MSDS .

This product is Greenguard certified, meaning it has met some of the world's most difficult and complete standards for low emissions of VOC's into indoor air. This product also adheres to the California Department of Public Health (CDPH) Standard Method V1.1-2010, a standard vital to demonstrate compliance with LEED.

Green Chemistry:

Tremco Incorporated is dedicated to the environment and prides itself on making its products as sustainable as possible.

Additional Information:

Should you have any questions or require additional information, please do not hesitate to contact Technical Services or your local Tremco Field Representative.

Sincerely,

A handwritten signature in blue ink, appearing to read "Amy Woodard".

Amy Woodard
Manager
Compliance and Regulatory