

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

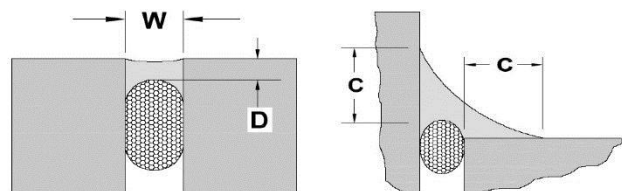
May be used in joints designed in accordance with accepted architectural/engineering practices. Joint width should be 4 times anticipated movement, but not less than 1/4" (6 mm) wide.

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 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 1/2" (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.

Spectrem® 3

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

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.

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		-40 to 300 °F (-40 to 149 °C)
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

1018/SPEC3DS-ST Please refer to our website at www.tremcosealants.com for the most up-to-date Product Data Sheets.

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