

Spectrem® 3

Non-Staining, Low-Dirt Pick-Up, Low-Modulus Silicone Sealant

Product Description

Spectrem® 3 is a general-purpose, low-modulus, high-performance, one-part, neutral-cure, non-staining, low dirt pick-up, construction-grade silicone sealant.

Basic Uses

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

Product Features

- Low polar attraction to dirt
- Extremely low stain potential
- Low-modulus and low Shore A hardness
- Primerless adhesion to most porous substrates
- Extended tooling time and workability in high temperatures
- No cure inhibition with Spectrem 1, Spectrem 2 or Dymonic® FC when applied "wet-to-wet"
- Low-VOC, zero solvent content
- Matte finish

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 Class A
- CAN/CGSB 19.13-M87
- EIMA Test Method 300.01

Product Benefits

- A 20 year non-stain warranty when pre-approved and tested by Tremco in accordance with ASTM C1248.
- Less chance of EIFS substrate failures when compared to applications with medium-modulus sealants.
- Ease of use reduces the risk of application failure.
- Compatibility with other sealants minimizes the chance of leakage when sealants abut at glazing and other façade intersects.
- Low-VOC satisfies the LEED criteria for Indoor Environmental Criteria.
- Matte finish affords an aesthetically pleasing appearance with EIFS and stone substrates.

Packaging

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

Standard Colors

Aluminum Stone, Anodized Aluminum, Black, Bronze, Gray, Limestone, Off White, Precast White, White, Adobe Tan, Buff, Champagne, Dusty Rose, Sandstone, Ivory and Lt. Bronze.

TYPICAL PHYSICAL PROPERTIES

Property	Test Method	Typical Value
As Supplied:		
Tooling Time		40 min
Tack Free Time	ASTM C679	2 hr
As Cured: After 14 days at 77° F (25° C) and 50% R.H.		
Hardness (Shore A)	ASTM C661	15
After 14 days at 25° C (77° F)		
Tensile Strength at Max Elongation	ASTM D412	155 psi
100% Modulus		55 psi
50% Modulus		40 psi
25% Modulus		25 psi
Tear Strength (die "C")	ASTM D624	25-30 pli minimum
Peel Strength	ASTM C794	
Aluminum, Glass, Concrete		25-35 pli minimum
Temperature Range		-40° F to +300° F
Staining of Porous Substrates		
White Marble Primed & Unprimed	ASTM C1248	No Stain
Stain and Color Change	ASTM C510 (TT-S-001543A)	No Stain
Joint movement capability	ASTM C719	
Extension Compression		±50%

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.

INSTALLATION

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 in. (6mm) wide.

Joint Dimensions

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

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.

Priming

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

Joint Backing

Bond Breaking Tape

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.

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

Application

Spectrem 3 is easy to apply with conventional caulking equipment. Fill joint completely and tool. At 75° F (23.9° C), 50% R.H. tooling time is 1 hour. 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, Tremco Distributor or Tremco Warehouse.

Limitations

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

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.

