TREMCOSpectrem® 1 Ultra Low Modulus Silicone Joint Sealant

Product Description:

Spectrem 1 is an ultra-low modulus, high-performance, one-part, moisture-curing silicone joint sealant.

Basic Uses:

Spectrem 1 has exceptional physical properties, making it an ideal sealant for sealing the most demanding dynamically moving joints. This includes material having a high coefficient of linear expansion such as aluminum curtainwalls, precast concrete panels, metal panels and window perimeters. Spectrem 1 is formulated for expansion, control and lap joints.

Limitations:

- Do not apply to damp or contaminated surfaces.
- Use with adequate ventilation.

Packaging:

1/12 gallon (300mL) cartridges, 20 oz. (600mL) sausages, 2 gallon (7.57 L) and 4.5 (17 L) gallon pails and 55 gallon (208 L) drums.

Standard Colors:

Precast White, Off-White, Limestone, Bronze, Aluminum Stone, Black and White. Custom colors available.

Applicable Standards:

Conforms to ASTM C920 Type S, Grade NS, Class 100/50, Use NT, M, G, A and O, ASTM C-1382 and CAN/CGSB-19.13-M87, MCG-2-40-B-N and U.S. Federal Specification TT-S-001543A (COM-NBS) Class A, and U.S. Federal Specification TT-S-00230C (COM-NBS) Class A, Type II.

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, sand

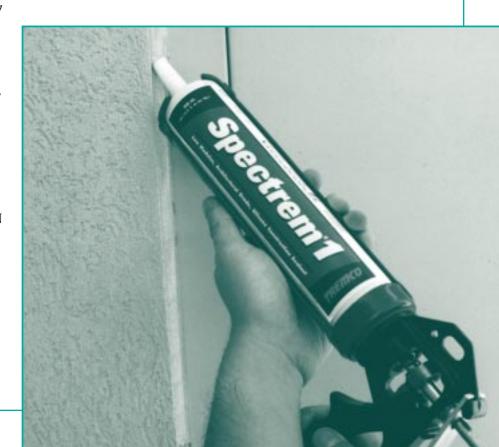
blasting, solvent washing and/or primer.

Tooling & Cleaning:

Tooling is recommended immediately after application to insure firm, intimate contact with the joint interface. Dry tooling is preferred. Cleaning can be accomplished with solvents such as IPA 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 the sealant application.





Application:

Spectrem 1 is easy to apply with conventional caulking equipment. Fill joint completely and tool. At $75^{\circ}F$ (23.9°C), 50% R.H. a durable skin will form within 10 to 30 minutes.

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.

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 to refund the purchase price of the quantity of Sealant proved to be defective and Tremco shall not be liable for any loss or damage.

Property	Test Method	Typical Value
As Supplied: Tack-free time Curing time Full Adhesion	ASTM C-679	30-60 min. 7-14 days 14-21 days
Flow, sag or slump inches	ASTM C-639	Nil
Working time		10-20 min.
As Cured: After 14 days at 7' Hardness (Shore A)	7°F (25°C) and 50% R.H. ASTM C-661	15
Tensile strength at maximum elongation	ASTM D-412	1.38 MPa (200 psi)
Tensile strength at 100% elongation	ASTM D-412	.24 MPa (35 psi)
Tear Strength, die ("C")	ASTM D-624	.7 kN/m (40 pli)

ASTM C-794

ASTM C-510

ASTM C-719

TT-S-001543A

TYPICAL PHYSICAL PROPERTIES

For MSDS and Spec Data Sheets, Call our 24 Hour Fax-Back Line: 1-800-551-2806 or visit our website:

www.tremcosealants.com



Peel Strength

Stain and Color

Joint movement

change

capability

Extension

Compression

Aluminum, Glass, Concrete

Sealant/Weatherproofing Division

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5.2 kN/m (30 pli)

None

+100

-50