Spectrem® 1

Single-Component, Moisture-Cure Silicone Sealant

Commercial Sealants & Waterproofing

Product Description

Spectrem® 1 is a high-performance, single-component, moisture-cure, ultra-low modulus silicone sealant.

Basic Uses

Spectrem 1 is the ideal sealant for 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.

Features and Benefits

- Ultra-low modulus means high elasticity with movement accommodation of +100/-50%.
- With excellent adhesion to a variety of substrates, one product can be used for multiple applications on the same job from perimeter caulking to expansion joints.
- An excellent choice for sealing difficult-to-adhere-to substrates.
- Resistance to driving rain, ozone, ultra-violet light and temperature extremes safeguards against water penetration with exceptional weatherability in all climate zones.
- Wide variety of colors to choose from with custom colors and color matching also available for a particular project.
- No mixing required, so product is always ready to use for immediate application with conventional caulking equipment.
- 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

2-gal (7.6-L) and 4.5-gal (17-L) pails

55-gal (208-L) drums

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

Colors

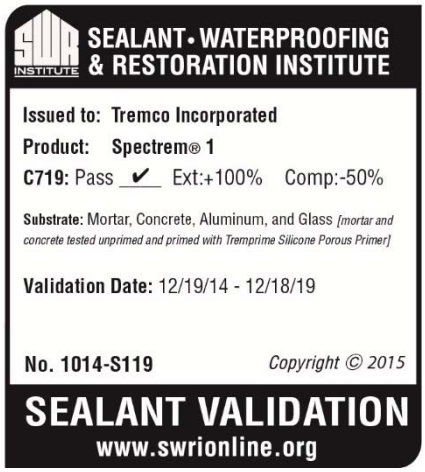
Aluminum Stone, Anodized Aluminum, Gray, Limestone, White, Off White, Precast White, Bronze, Buff, Dark Bronze, Ivory, Rustic Brick, Sandstone, Black, Adobe Tan, Champagne, and Charcoal.

Limitations

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

Substrate Preparation

Surface 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 1 meets or exceeds the requirements of the following specifications:

- ASTM C920 Type S, Grade NS, Class 100/50, Use NT, M, G, A and O
- ASTM C1248
- ASTM C1382
- ASTM E84
- 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, MCG-2-40-B-N
- EIMA Test Method 300.01
- Spectrem 1 has been tested as a component of several wall assemblies meeting ASTM E2357, the Standard Test Method for Determining Air Leakage of Air Barrier Assemblies, and NFPA 285, the Standard Fire Test Method for Evaluation of Fire Propagation Characteristics of Exterior Non-Load-Bearing Wall Assemblies Containing Combustible Components.

Application

Spectrem 1 is easy to apply with conventional caulking equipment. Fill joint completely and tool. At 75 ˚F (23.9 ˚C), 50% RH, a durable skin will form within 10 to 30 min. Please visit www.tremcosealants.com for complete application instructions.

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 Backing

Closed-cell polyethylene backer rods or the Tremco sealant tape illmod® 600 is 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.

Sealant Dimensions

For joints 1/4" (6 mm) to 1/2" (13 mm) wide, the width to depth ratio should be equal. Joints 1/2" (13 mm) wide 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).

Compatibility and Continuity

Spectrem 1 Silicone Sealant is the recommended sealant for use when detailing over the ExoAir® Air Barrier system to ensure an airtight seal throughout the building envelope. Spectrem 1 has excellent adhesion to most polyethylene-backed, self-adhering air barrier membranes.

The performance of Spectrem 1 is exceptional when used on the polyethylene face of ExoAir 110, ExoAir TWF and the cured surface of ExoAir 120, ExoAir 220 and ExoAir 230.

Spectrem 1 is recommended for use with Tremco's Silicone Rubber extrusions and Tremco's patented solution, Proglaze® ETA (Engineered Transition Assembly), for sealing between challenging conditions such as the opaque wall air barrier and window/curtain wall assemblies. For more information on Proglaze ETA, ExoAir or Tremco's Silicone Rubber Extrusions, please visit the Tremco website at www.tremcosealants.com.

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:		
Curing Time		7 to 14 days
Flow, sag or slump inches	ASTM C639	Nil
Full Adhesion		14 to 21 days
Tack free time	ASTM C679	30 to 60 min
Tooling Time	Skin Formation	10 to 20 min
Extension		Plus 100
As Cured: After 14 days at 77 °F (25 °C), 50%RH		
Hardness (shore A)	ASTM C661	Plus 15
Peel Strength Aluminum and Glass	ASTM C794	5.2 kN/M (30 pli)
Stain & Color Change	ASTM C510 TT-S-001543A	None
Staining of Porous Substrates White Marble Primed & Unprimed	ASTM C1248	No Stain
Tear strength, die ("C")	ASTM D624	.7 kN/M (40 pli)
Tensile Strength at 100% Max Elongation	ASTM C1184	.24 MPa (35 psi)
Tensile Strength at Max Elongation	ASTM D412	1.38 MPa (200 psi)

Tremco Commercial Sealants & Waterproofing

3735 Green Rd
Beachwood OH 44122
216.292.5000 / 800.321.7906

1451 Jacobson Ave
Ashland OH 44805
419.289.2050 / 800.321.6357

220 Wicksteed Ave
Toronto ON M4H1G7
416.421.3300 / 800.363.3213

1445 Rue de Coulomb
Boucherville QC J4B 7L8
514.521.9555

www.tremcosealants.com

This guide only offers a general representation of our color offering. Colors viewed on a computer screen and then printed will vary and will never be an exact representation of the actual pigment. When matching is critical, please refer to our color card or sample color strips.

CANNONDESIGN

SUBMITTAL IDENTIFICATION SHEET

To be completed by Contractor/CM

WEBSTER UNIVERSITY ISB
PROJECT NAME

8274 BIG BEND BLVD
ADDRESS

NUMBER

WEBSTER UNIVERSITY
OWNER

CANNON DESIGN
ARCHITECT / ENGINEER

DEVIN D GATES
SUBMITTED BY

079200-001
CONTRACTOR / CM SUBMITTAL NO.

CANNON DESIGN SUBMITTAL NO.

DRAWING / DETAIL REFERENCE

079200
SPECIFICATION SECTION / PARAGRAPH

Tremco
MANUFACTURER / SUPPLIER

ITEM / PRODUCT ID

REQUIRED DATE

PRIORITY

○ CRITICAL

ITEM BEING SUBMITTED (check only one)

- ○ Shop Drawings
- ○ Samples (_____ copies)
- ○ LEED Submittal
- ○ Certification / Qualifications
- ○ Record Documents
- ◉ Product Data
- ○ Coordination Drawing
- ○ Calculations
- ○ Schedules
- ○ O&M Manuals
- ○ Other _____

ITEM BEING SUBMITTED FOR (check only one)

◉ Action ○ Information Only ○ Record

REMARKS OR DEVIATIONS

Please select color for each type of sealant.

CONTRACTOR / CM CERTIFICATION
(SUBMITTALS NOT CERTIFIED WILL BE RETURNED WITHOUT REVIEW)

PARIC

PARIC CORPORATION
SUBMITTAL STAMP

THIS SHOP DRAWING HAS BEEN REVIEWED BY PARIC CORPORATION

Subcontractor remains responsible for dimensions, quantities, coordination with other trades and compliance with contract documents.

By:
Devin D. Gates

DEVIN D GATES — REVIEWED BY
05/05/16 — DATE

To be completed by Reviewer

07 9200-001
CANNON DESIGN SUBMITTAL NUMBER

5/5/16
RECEIVED DATE

- ◉ A. No Exceptions Taken
  No further review of submittal is required.
- ○ B. Make Corrections Noted
  Incorporate corrections in work; resubmission is not required.
- ○ C. Revise and Resubmit
  Revise as noted, and resubmit for review.
- ○ D. Rejected
  Submittal is not in compliance with Contract Documents; provide new submittal.
- ○ E. For Record / Information Only
  Submittal was reviewed for Record / Information purposes only.
- ○ F. Not Required for Review
  Submittal is not required by Contract Documents and has not been reviewed.

Review is for conformance with the design concept of this project and for general compliance with contract documents. Contractor is responsible for quantities, dimensions and compliance with contract documents and for information that pertains to fabrication processes, construction techniques and coordination of this work with all trades which will be affected thereby. This review is null and void if submittal deviates from contract documents and does not indicate or note deviations.

A/E COMMENTS ○ See attached sheet(s) for additional comments

To be utilized only in locations per 079200 specifications and not for 084423 Structural-Sealant-Glazed Curtain Walls

Kathy Williams — REVIEWED BY
5-11-16 — DATE

77 Westport Plaza
Suite 250
St. Louis, MO 63146

TRANSMITTAL

No. 15051-0030

Paric Corporation

PROJECT: Webster University Interdisciplinary Science Building

DATE: 05/03/2016

TO: Cannon Design
1100 Clark Ave
St Louis MO 63102

RE: Joint sealant product data, product certificate, color chart

ATTN: Kelvin Patel

JOB: 15051

WE ARE SENDING:	SUBMITTED FOR:	ACTION TAKEN:
☐ Shop Drawings	☐ Approval	☐ Approved as Submitted
☐ Letter	☐ Your Use	☐ Approved as Noted
☐ Prints	☐ As Requested	☐ Returned After Loan
☐ Change Order	☐ Review and Comment	☐ Resubmit
☐ Plans		☐ Submit
☐ Samples	**SENT VIA:**	☐ Returned
☐ Specifications	☐ Attached	☐ Returned for Corrections
☑ Other:	☐ Separate Cover Via:	☑ Due Date: 06/22/2016

Item	*Package*	*Code*	*Rev.*	*Copies*	*Date*	*Description*	*Status*
Submittal		079200-001	1		05/03/2016	Joint sealant product data, product certificate, color chart for curtainwall.	Open

NOTES:

CC:

Signed: _____

Devin Gates

NGG LTD., INC
glass integration solutions & exterior wall systems

TRANSMITTAL

Project Name: Webster University
Project No. 10047
Reference:

Attn / To: Jason Szachnieski
Date: 5/3/2016

Company: Paric
Transmittal No. 10047-02

Address: 77 Westport Plaza, Suite 250
St. Louis, MO 63146

Transmitting a(n):

- ☐ Calulation(s)
- ☐ Change Order
- ☐ Copy of Document
- ☑ Submittal
- ☐ Other
- ☐ Report
- ☐ Specifications
- ☐ Shop Drawing(s)
- ☐ Print(s)

Sent Via:

- ☐ Pick-Up
- ☐ Hand Deliver
- ☑ Email
- ☐ Messenger/Courier
- ☐ Other
- ☐ UPS
- ☐ FedEx
- ☐ Mail
- ○ Ground
- ○ 2nd Day
- ○ Overnight

Copies	Date	Reference / No.	Name / Description:
1			TEMCO SPECTREM 1 FOR USE AT PERIMETER CONDITIONS
			TREMCO SPECTREM 2 FOR USE AT SSG JTS AND METAL
			TO METAL JOINERY.

Purpose:

- ☑ For Approval
- ☐ Resubmitted for Approval
- ☐ As Requested
- ☐ For Your Use
- ☑ Review
- ☐ Comment
- ☐ Return Corrected
- ☐ Other

Remarks:
PLEASE RETURN (1) EACH WITH APPROVAL STAMP

Signed: _____ Date: 5/3/2016
Daniel Ward
Project Manager

1850 Craigshire Rd. Suite 100
Saint Louis, MO 63146 o| 314.336-2515 f| 314.336-2521 nggltd.com