Spectrem® 4

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

Product Description

Spectrem® 4-TS is a multi-component, low-modulus, construction sealant with patented advanced silicone technology. Non-staining and low polar attraction to dirt increases aesthetic appearance. Spectrem 4-TS offers color flexibility with the opportunity to tint the material on site.

Basic Uses

Formulated for use in dynamically moving building joints with +/- 50% movement. Typical applications for Spectrem 4-TS include EIFS, expansion and control joints, tilt-up panel joints, precast concrete panel joints, and perimeter caulking (windows, doors, panels).

Features and Benefits

- Tremco Universal Color Paks in 70 standard colors and no minimum purchase quantity afford color flexibility for seamless façade appearance.
- Opportunity to tint materials on-site means quick turn-around.
- 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 reduces chance of EIFS substrate failures when compared to applications with medium-modulus sealants.
- Primerless adhesion to most construction materials.
- Extended tooling time and workability in high temperatures.
- Ease of use reduces risk of application failure.
- 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 Field Representative, Tremco Distributor or Tremco Warehouse.

Colors

Spectrem 4-TS is available in 70 standard colors and can be custom matched to virtually any color upon request.

Limitations

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

Substrate Preparation

For good adhesion, the joint interface must be sound, clean and dry. Depending on the substrate, or presence of form release agents, masonry waterproofing, dust, loose mortar or laitance, architectural paints or finishes, the joint surface may require a thorough wire brushing, grinding, sandblasting, solvent washing and/or primer.

Applicable Standards

- Conforms to ASTM C920, Type M, Grade NS, Class 50, Use NT, G, M, A and O
- U.S. Federal Specification TT-S-00230, Type I, Class A
- U.S. Federal Specification TT-S-001543A Class A
- Canadian Standard CAN/CGSB-19.13-M87

- EIMA Test Method 300.01
- ASTM C 1382

Application

Mix in accordance with directions on the product container label. Mixing should continue until the desired uniform color is reached. Apply with conventional caulking equipment, filling the joint completely and tool.

Joint Design

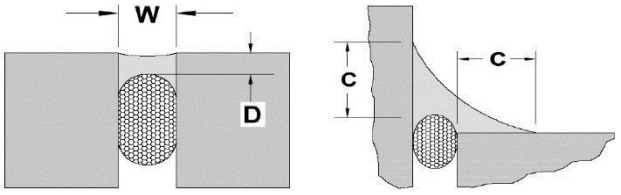
May be used in any vertical or horizontal joint design in accordance with accepted architectural/engineering practice. Joint width should be 4-times anticipated movement, but not less than 1/4" (6 mm) wide.

Joint Backing

Closed-cell polyethylene backer rods are preferred as 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 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 ½” (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.

Clean Up

Tooling is recommended immediately after application to ensure firm, intimate contact with the joint interface. Dry tooling is preferred, although tooling agents can be utilized. Excess sealant and smears adjacent to the joint can be removed with IPA, MEK, Xylol or Toluol before sealant cures.

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 30 pli minimum
Application Termperature Range		-40 to +300 °F (-40 to 148 °C)
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	110 to 130 psi
100% Modulus		30 to 35 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