

## Spectrem® 4-TS Field-Tintable Silicone Sealant



**SEALANT • WATERPROOFING  
& RESTORATION INSTITUTE**

Issued to: Tremco Incorporated  
Product: Spectrem 4-TS Silicone Sealant

C719: Pass  Ext:+50% Comp:-50%

Substrate: Aluminum, Mortar, Glass  
*[Mortar substrates primed with Tremsil Silicone Porous Primer.]*

C661: Rating 20

Validation Date: 3/30/07 - 3/29/12

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**SEALANT VALIDATION**  
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### Product Description

Spectrem 4-TS is a multi-component, neutral-curing, non-staining, low dirt pick up, low-modulus silicone sealant specially formulated for use in dynamically moving building joints with +/- 50% movement.

### Basic Uses

Spectrem 4-TS offers excellent performance in moving joints for both new construction and renovation projects. Spectrem 4-TS is the only silicone available offering color flexibility, with the opportunity to tint the material on site. Spectrem 4-TS does not require a primer on most construction materials and exhibits tenacious adhesion once fully cured. Typical applications for Spectrem 4-TS include: EIFS, expansion and control joints, tilt-up panel joints, precast concrete panel joints, perimeter caulking (windows, door, panels), etc.

### 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, Class A; U.S. Federal Specification TT-S-001543A Class A and Canadian Standard CAN/CGSB-19.13-M87, EIMA Test Method 300.01 and ASTM C1382.

### Packaging

1-1/2 gallon (5.7 L) kits that requires a separate color pack (pigment) to be added.

### Standard Colors

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

### INSTALLATION

#### 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 inch (6.4mm) wide.

#### Dimensions

For joint 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 sealant depth of 1/2 inch (12.7mm). Minimum joint size is 1/4 inch by 1/4 inch (6.4mm by 6.4mm).

## TYPICAL PHYSICAL PROPERTIES

| Property  | Test Method | Typical Value   |
|---|-------------|-----------------|
| <b>As Supplied:</b>   |             |                 |
| Tooling Time  | --          | 40 minutes      |
| Tack Free Time  | ASTM C-679  | 2 hrs           |
| <b>As Cured: After 14 days at 77° F (25°C) and 50% R.H.</b> |             |                 |
| Hardness (Shore A)  | ASTM C-661  | 15              |
| After 14 days at 25°C (77°F)                                |             |                 |
| Tensile Strength at Max Elongation                          | ASTM D-412  | 110-130 psi     |
| 100% Modulus  |             | 30-35 psi       |
| Tear Strength (die "C")                                     | ASTM D-624  | 25-30 pli min.  |
| Peel Strength   | ASTM C-794  |                 |
| Aluminum, Glass, Concrete                                   |             | 25-30 pli min.  |
| Temperature Range   |             | -40°F to +300°F |
| Staining of Porous Substrates                               |             |                 |
| White Marble Primed & Unprimed                              | ASTM C-1248 | No Stain        |
| Joint movement capability                                   | ASTM C-719  |                 |
| 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.

## Surface 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.

## 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 sealant application.

## Tooling & Cleaning

Tooling is recommended immediately after application to insure 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 Xylol or Toluol before sealant cures.

## 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.

## Maintenance

Damaged sealant can be repaired. Consult your Tremco Field Representative or Distributor for repair procedures.

## Availability

Available from your local Tremco Field Representative, Tremco Distributor or Tremco Warehouse.

## Limitations

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

## Warranty

Tremco warrants its Sealants 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 Sealants. Tremco's sole obligation shall be, at its option, to replace or refund the purchase of the quantity of Tremco Sealant proven to be defective and Tremco shall not be liable for any loss or damage.

