

DESCRIPTION

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

USAGE/PURPOSE

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:

- Spectrem Simple Seal
- Aluminium Curtain Walls
- Precast Concrete Panels
- Metal Panels
- Window Perimeters

FEATURES & 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 colours.
- 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.

PACKAGING

600ml Sausages (15 per case)

STOCK COLOURS

- Aluminium Stone
- Black
- Bronze
- Limestone

SPECIAL COLOURS

Special colours available upon request with a 12-16 week lead time.

- Adobe Tan
- Anodized Aluminium
- Buff
- Champagne
- Charcoal
- Dark Bronze
- Grey
- Ivory
- Off White
- Precast White
- Rustic Brick
- Sandstone
- White



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 minutes
Tooling Time	Skin Formation	10 to 20 minutes
Extension		Plus 100
As Cured: After 14 days at 25°C, 50% RH		
Hardness (Shore A)	ASTM C661	Plus 15
Peel Strength Aluminium & Glass	ASTM C794	30 pli
Stain & Colour 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	40 pli
Tensile Strength at 100% Elongation	ASTM C1184	35 psi
Tensile Strength at Max Elongation	ASTM D412	200 psi

SHELF LIFE

12 months when stored as recommended in original unopened packaging.

STORAGE

Store in original, undamaged packaging in a clean, dry, protected location with temperature between 5-43°C.

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

LIMITATIONS

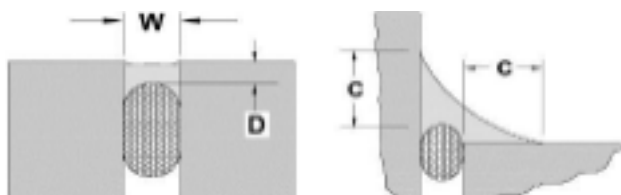
- Do not apply to damp or contaminated surfaces.
- Use with adequate ventilation.
- Not intended for continuous water immersion.

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.

SEALANT DIMENSIONS

- W = Sealant width, D = Sealant depth, C = Contact area



EXPANSION JOINTS

The minimum width and depth of any sealant application should be 6 mm x 6 mm. The depth (D) of sealant may be equal to width (W) of joints less than 13mm wide. For joints from 13 mm to 25 mm wide, the sealant depth should be approximately one-half of the joint width. The maximum depth (D) of any sealant application should be 13 mm. For Joints that are wider than 25 mm contact Tremco Technical Services or your local Tremco Sales Representative.

PERIMETER JOINTS

For fillet beads, or angle beads around windows and doors, the sealant should exhibit a minimum surface contact area [C] of 6 mm onto each substrate, with provisions for release at the heel of the angle using backer rod or bond breaker tape.

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 5 °C or above before applying any sealant. If colder weather is imminent, please contact Tremco Technical Services or your local Tremco Sales Representative.

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.

PRIMING

Always perform project specific field testing to verify adhesion of the sealant to the substrate. If necessary, Tremco Silicone Metal Primer or Tremco Silicone Porous Primer may be needed.

APPLICATION

Spectrem 1 is easy to apply with conventional caulking equipment. Fill joint completely and tool. At 23.9°C, 50% RH, a durable skin will form within 10 to 30 min.

CLEAN UP

Excess sealant and smears adjacent to the joint interface can be carefully removed with IPA Cleaner before the sealant cures. Any utensils used for tooling can also be cleaned with IPA Cleaner.

HEALTH & SAFETY PRECAUTIONS

The Safety Data Sheet (SDS) must be read and understood prior to use.

TECHNICAL SERVICE

TREMCO has a team of qualified Technical Sales Representatives who provide assistance in the selection and specification of products. For more detailed information or service and advice, call Customer Service on (02) 9638 2755 or fax (02) 9638 2955.

GUARANTEE/WARRANTY

TREMCO products are manufactured to rigid standards of quality. Any product which has been applied (a) in accordance with TREMCO written instructions and (b) in any application recommended by TREMCO, but which is proved to be defective, will be replaced free of charge.

Any information provided by TREMCO in this document in relation to TREMCO's goods or their use is given in good faith and is believed by TREMCO to be appropriate and reliable. However, the information is provided as a guide only, as the actual use and application will vary with application conditions which are beyond our control. TREMCO makes no representation, guarantee or warranty relating to the accuracy or reliability of the information and assumes no obligation or liability in connection with the information. To the extent permitted by law, all warranties, expressed or implied are excluded.