

# SPECTREM 2®

## ONE PART MEDIUM MODULUS NEUTRAL CURE STRUCTURAL SILICONE SEALANT

### Key Benefits Summary

- Exceptional stability - highly resistant to ultra violet light, acid rain, ozone, moisture and extremes of temperature.
- Easy to gun over a wide temperature range.
- One component - no mixing equipment is required.
- Tools easily to a smooth and attractive finish.
- High performance - for demanding applications.
- Fast cure.
- Extensive proven track record worldwide.

### Standards

SPECTREM 2 meets the requirements of:

- TT-S-00230C (COM-NBS) Class A, non sag for one component sealants.
- TT-S-001543A (COM-NBS) Class A, non sag for silicone building sealants.
- ASTM C920-87 Standard Specification for Elastomeric Joint Sealant, Type S, Grade NS, Class 25, Use NT, G, A and M.
- CAN/CGSM-19-13-M87 Sealing Compound, One Component, Elastomeric, Chemical Curing, MCG-2-25-A-L.

### PRODUCT INFORMATION

#### DESCRIPTION

SPECTREM 2 is a one component, neutral cure, medium modulus structural silicone sealant. SPECTREM 2 provides excellent cure stability and is suitable for a variety of high performance caulking and glazing applications.

#### USAGE/PURPOSE

- Tensile bead in two and four sided structural glazing\*.
- Cap beads.
- Toe beads.
- Weather seal.

\* All structural glazing applications must be reviewed and approved by TREMCO Technical Service.

#### LIMITATIONS

SPECTREM 2 is not recommended for:

- Continuous water immersion.
- Use on materials where migration of constituents can take place e.g. certain rubbers.
- Sensitive porous substrates e.g. marble, architectural stone, etc. where the possibility of staining exists without pre-testing.
- Joints subject to traffic.
- Substrates that will be painted. The paint film will not adhere or stretch with the sealant and may crack or peel off.
- In totally confined spaces as the sealant requires atmospheric moisture to cure.

**COLOUR :** Black.

#### PACKAGING

- 300ml Cartridge packed 30 per carton.

#### TECHNICAL INFORMATION

#### COMPOSITION

SPECTREM 2 is a neutral cure silicone sealant that reacts with atmospheric moisture to form a permanently flexible silicone rubber with high tensile and adhesive strength.

#### CHARACTERISTICS

- SPECIFIC GRAVITY : 1.4

#### PERFORMANCE (Typical Properties)

- SAG ASTM D2202 (Full) 0 to 0.8mm
- HARDNESS ASTM C661 35 to 40 Shore A
- TENSILE STRENGTH ASTM D41 1.86 to 2.00 MPa (270 to 290 psi)
- MOVEMENT CAPACITY ASTM C719 ± 50%
- ELONGATION ASTM D412 225% to 250%
- 100% MODULUS ASTM C1135 0.52 to 0.66MPa
- TACK FREE TIME ASTM C679 < 2 hours
- TOOLING TIME 8 to 10 minutes
- CURE TIME (6mm @ 23°C & 50% RH) 7 to 14 days
- PEEL STRENGTH ASTM C794 (On glass, aluminium and mortar) 2.81 to 3.86kN/m (16 to 22 pli)
- TEAR STRENGTH ASTM C624 (Die B) 6.5 to 7.0 kN/m (37 to 40 pli)
- SERVICE TEMPERATURE RANGE -54°C to 177°C
- VOC 0.6%

(NOTE: Typical properties should not be used as specifications)



# SPECTREM 2

## USAGE GUIDELINES

### JOINT DESIGN CONSIDERATIONS

- Joint width shall be four (4) times the anticipated movement.
- Width of depth ratio shall be 2:1.
- Minimum depth for porous substrates is 10mm.
- Minimum depth for non porous substrates is 3mm.
- Minimum width 6mm.
- Sealant width shall not be less than sealant depth.
- For fillet joints the minimum bite onto each surface should be 10mm for porous and 6mm for non porous substrates.
- For structural glazing a minimum face clearance of 6mm is required for the proper installation of SPECTREM 2 into the glazing pocket. The depth of the sealant bead or the surface contact depth (SCD) is calculated based on the glass panel size and the specified design wind load. Contact your TREMCO representative for specific recommendations.

### SURFACE PREPARATION

- Joint interfaces should be clean, dry and free of dust and other contaminants likely to impair adhesion.
- Glass surfaces should be degreased with IPA (Isopropyl Alcohol) using the two cloth method.
- Metal surfaces should be degreased with IPA or MEK using the two cloth method.
- For structural glazing applications the cleaning method will be determined by TREMCO Technical Services.

### SEALING BACKING

Where applicable install a closed cell polyethylene backing rod at 20% to 30% compression. Sealant backing rod is installed to:

- Prevent sealant adhesion to joint pocket rear.
- Control the depth of the sealant.
- Provide a firm base for tooling the sealant.
- Polyethylene or silicone faced self adhesive bond breaker tape can be used where insufficient joint depth exists to allow the use of a backing rod.
- Sealant backing is not applicable for structural glazing applications.

### PRIMING

SPECTREM 2 does not require a primer for a wide variety of substrates, however certain metal finishes and some types of concrete or masonry might require primer. Consult your TREMCO representative for recommendations.

For structural glazing applications, laboratory adhesion testing to all substrates where the sealant will be in contact with is compulsory. Contact your TREMCO representative.

### METHOD OF APPLICATION

- SPECTREM 2 can be applied with conventional hand or air operated caulking guns.
- Apply at temperatures between +5°C and +40°C.
- All beads should be tooled immediately after application to ensure firm, full contact with the joint faces.

### COVERAGE RATE (Approximate)

As a general rule, multiply joint width (mm) x joint depth (mm) = coverage rate of sealant in ml per lineal metre of joint. For example:

Joint width 10mm x joint depth 10mm  
= 100ml of sealant for 1 lineal metre.

### CLEANING

- Immediately remove all excess sealant and smears adjacent to the joint (use masking tape where appropriate).
- Fresh sealant can be cleaned off with IPA.
- Cured sealant can only be removed mechanically.

### HEALTH AND SAFETY PRECAUTIONS

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

### WARNING

When using solvents always follow precautions on solvent label.

### STORAGE

Store in original unopened packaging, in dry conditions between +5°C and +25°C.

### SHELF LIFE

12 months when stored as recommended in original unopened containers.

### TECHNICAL SERVICE

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

### GUARANTEE/WARRANTY

We warrant our products to be free of defects and manufactured to meet published physical properties when tested according to applicable specifications and TREMCO standards.

Under this warranty we will provide at no charge, product to replace any product proven to be defective when applied in accordance with our written instructions and in applications recommended by TREMCO as being suitable for this product.

All claims concerning product defects must be made within 12 months of shipment. Absence of such claims in writing during this period will contribute a waiver of all claims with respect to such product. This warranty is in lieu of any and all other warranties expressed or implied.

TREMCO PTY LTD ABN 25 000 024 064  
Unit 1, 2 Park Rd, RYDALMERE NSW 2116 Australia  
Tel: (02) 9638 2755 Fax: (02) 9638 2955  
tremco@tremco.com.au