

TREMSil® 870

ONE PART NEUTRAL CURE SILICONE SEALANT

TECHNICAL INFORMATION

Key Benefits Summary

- Neutral cure - low odour - no risk of any corrosion of substrate by acid or amino generation.
- Exceptional UV resistance.
- Excellent adhesion to glass, aluminium, concrete, ceramics, stone, most metals, plastics and painted surfaces.
- Recommended for use on Zinalume, Galvabond, Colorbond and Marvplate*

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Standards

TREMSil® 870 meets or exceeds

- Durability class 9030G of JIS A5758 approval no: 381142, JIS A5758 (SR-1-9030G-A-N)

PRODUCT INFORMATION

DESCRIPTION

TREMSil® 870 is a one component, gun grade neutral cure silicone that reacts with atmospheric moisture to form a permanently flexible and extremely durable weatherproof seal.

USAGE/PURPOSE

- General purpose glazing.
- Curtain wall sealing.
- Butt glazing of laminated glass
- Roof and guttering joints.
- Sheet metal, building cladding.
- Skylights, ventilators.
- Air conditioning.

LIMITATIONS

TREMSil® 870 is not recommended for:

- Use as a structural glazing sealant.
- Permanent immersion.
- Use on materials where migration of constituents can take place e.g. certain rubbers.
- Sensitive substrates e.g. marbles, architectural stones etc. where the small possibility of staining exists without pre-testing.

COLOUR

Lights grey, black, translucent, white, bronze, beige.

PACKAGING

- 300g Cartridge packed 25 per carton.

COMPOSITION

TREMSil® 870 is a neutral (oxime) cure silicone sealant.

CHARACTERISTICS

- SPECIFIC GRAVITY
1.02

PERFORMANCE

- CURE METHOD
Neutral (Oxime)
- SAG/SLUMP
None
- HARDNESS (ASTM D2240)
28 Shore A
- TENSILE STRENGTH
1.47 mpA (215 psi)
- DYNAMIC JOINT MOVEMENT
+_20%
- ELONGATION
390%
- SKIN TIME @ 20°C & 50%RH
10 minutes
- CURE TIME 10mm @ 25°C & 50%RH
5-7 days
- OPERATING TEMPERATURE RANGE
-62°C TO 170°C

NOTE: Typical Properties should not be used as Specifications.

USAGE GUIDELINES

JOINT DESIGN CONSIDERATIONS

- Width to depth ratio of TREMSil® 870 should be 2:1 subject to a minimum depth of 10mm for porous substrates and 6mm for non porous substrates.
- Sealant width not to be less than sealant depth.
- For fillet joints the minimum bite onto each surface should be 10mm for porous substrates and 6mm for non porous substrates.

TREMsil® 870

SURFACE PREPARATION

- Loose friable material must be removed and surfaces made good.
- Joint faces should be clean, dry, free of dust and free of substrates likely to impair adhesion.
- Metal surfaces should be degreased with IPA cleaner or MEK solvent.

SEALANT BACKING

Install a closed celled polyethylene backing rod at 20-30% compression. 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 based self adhesive bond breaker tape can be used where insufficient joint depth exists to allow the use of a backing rod.

PRIMER

Primer is not required on most substrates. For advice on primer please consult your nearest TREMCO office.

METHOD OF APPLICATION

- Use conventional sealant gun for dispensing the sealant.
- All beads should be tooled immediately to ensure firm, full contact with joint faces.

COVERAGE RATE (Approximate Linear Metres per 300g Cartridge)

WIDTH	6mm	10mm	20mm	25mm
DEPTH (min)				
6mm (min)	8	5	-	-
10mm	-	-	1.5	-
12mm (max)	-	-	-	1

FILLET JOINTS TRIANGULAR CROSS SECTION

6mm x 6mm	=	16
10mm x 10mm	=	6

CLEANING

Immediately remove all excess sealant and smears adjacent to the joint (use masking tape where appropriate). Equipment should be cleaned with Xylol or Toluol. Cured sealant can only be removed by abrasion.

HEALTH AND SAFETY PRECAUTIONS

- Avoid contact with skin, eyes, clothes and mouth and avoid breathing vapour.
- Use in well ventilated area. If in eyes immediately flush with water for 15 minutes, seek medical attention.
- Do not handle contact lenses until all sealant has been removed from the fingertips - residual sealant on fingertips may contaminate contact lenses and cause eye irritation.
- To clean hands, wipe sealant from the skin with a dry cloth or paper towel, then wash with soap and water or hand cleaner. If eye or skin irritation persists, seek medical attention.
- Keep out of reach of children.

WARNING

This product emits Methyl Ethyl Ketoxime (MEKO) whilst curing. See Material Safety Data Sheet for further information. When using solvents, always follow precautions or solvent label.

STORAGE

Store in original unopened packaging, in cool, dry conditions. The storage temperature should not exceed 25°C as this will decrease shelf life.

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 constitute a waiver of all claims with respect to such product. This warranty is in lieu of any and all other warranties expressed or implied.