

# Proglaze II

## Two-Component, Neutral Cure Silicone Sealant for Structural Glazing

### PRODUCT DESCRIPTION

Proglaze II is a two-part, high modulus structural silicone sealant. Proglaze II consists of a white base component and a black curing agent. Once catalysed, this material cures to a tough, flexible rubber. A non-sag sealant that cures to a high modulus profile ideally suited for both 2 and 4-sided structural glazing applications.

### USAGE/PURPOSE

Proglaze II is developed specifically for in-plant structural glazing and curtain wall applications where controlled cure time reduces glazing/sealing production time. All structural glazing applications must be reviewed and approved by Tremco prior to the application of Tremco Proglaze II.

### PACKAGING

- Base: 190L, 18.9L
- Curative: 17L

### COLOUR

- Base component: White
- Catalytic component: Black

### SHELF LIFE

- 12 months when stored as recommended in original unopened packaging.
- Black catalyst component: 9 months when stored as recommended in original unopened packaging.

### STORAGE

Store in a dry cool place in an upright position in original unopened packaging.



### FEATURES & BENEFITS

- Compliant to AS 1288 – Glass in Buildings & ASTM C1184 – Standard Specification for Structural Silicone Sealants.
- European Technical Assessment (ETA) 05/005 as well as CE marking according to guide EOTAG ETAG 002.
- Formulated specifically for structural glazing applications.
- High modulus for a tough, flexible rubber cure when mixed producing a tenacious, structural watertight seal.
- Short cure time reduces glazing/sealing production time with snap time as low as 30 – 60 minutes.
- White & Black components provide visual cue that proper mixing of the sealant has occurred.
- Neutral cure reduces the chance of chemical reactions occurring with accessory components or laminates in the window assembly.
- Very resistant to UV light, moisture, high temperature fluctuations, wind loads and other weather conditions provide the Proglaze II an extremely long functional life.

### TYPICAL PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	PROGLAZE II	
		Part A - White	Part B - Black
Density	N/A	1.33	1.05
Mixing Ratio	By Volume	10	1
Mixing Ratio	By Weight	13	1
Tolerance Ratio	By Weight	11-14	1
Specific Gravity	N/A	1.33g/cm <sup>3</sup>	1.05g/cm <sup>3</sup>
Working Time @ 23°C, 50% R.H.	N/A	30-60 Minutes	
Tack - Free Time @ 23°C, 50% R.H.	N/A	Approx. 80 Minutes	
Cyclic Movement	ASTM C719	+/-25%	
Shore A Hardness	ASTM C661	40 - 45	
Tensile Strength @ 25% Elongation	ASTM C1135	0.34 - 0.35 MPa	
Tensile Strength @ Max. Elongation	ASTM D412	1.37 - 1.44 MPa	
Elongation	ASTM D412	275 - 300%	
Ultimate Tensile Strength	ASTM C1135	0.81 MPa	
Ultimate Elongation	ASTM C1135	158%	
Recommended Application Temperature	N/A	15°C - 35°C	
Service Temperature	N/A	-40°C - 150°C	
Slump/Sag	ASTM D2202	0 mm	

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### SPECIFICATION CLAUSE

The structural glazing sealant is specified as Proglaze II, a two part, high modulus, neutral cure structural silicone sealant.

### LIMITATIONS

- ❑ Do not apply to damp or contaminated surfaces.
- ❑ Do not use on porous surfaces.
- ❑ Not intended for continuous water immersion.
- ❑ On surfaces or adjacent to materials which may exude oils, resins, plasticizers, tars or solvents that could have a deleterious effect on the structural bond of the Proglaze II to the glass or the anchoring substrate.
- ❑ On unfinished or untreated surfaces, impregnated wood, oil based sealants and some vulcanised rubber or plastic gaskets which could have a deleterious effect on the structural bond of the Proglaze II to the glass or the anchoring substrate.

### JOBSITE MATERIALS

Recommended materials and their uses are as follows:

- ❑ Appropriate pump. Contact Tremco for more information and pump recommendations.
- ❑ Tremco IPA Cleaner: Iso-propyl alcohol used to clean all substrates prior to application of Tremco primers or Proglaze II structural silicone.
- ❑ TREMprime SG010 Primer: A single component, adhesion promoting primer used on non-porous substrates such as glass, metal or plastics prior to installation of Proglaze II structural silicone.
- ❑ TREMprime Silicone Porous Primer: A single component, adhesion promoting primer used on porous substrates such as concrete, limestone, brick, masonry, etc.
- ❑ Tremco SGT - Structural Glazing Tape: A series of open cell, high density polyurethane foam tapes used as a compatible spacer for Proglaze II.
- ❑ Tremco 440 Tape: 100% solids, polyisobutylene cross-linked butyl, preformed sealant. Used primarily for non-compression glazing of vision lites and spandrel panels in PVC, metal and timbre frames. May also be used to seal lap seams in panel construction such as steel, aluminium and porcelain.
- ❑ POLYshim II Tape: 100% solids, highly adhesive and elastic cross-linked butyl preformed tape with a continuous, integral EPDM shim. Used in compression glazing systems, in particular curtain-wall and sloped glazing applications.
- ❑ Proglaze II: A two-component, in-plant, neutral cure structural glazing silicone sealant.

### JOINT DESIGN CONSIDERATION

- ❑ Tremco recommends that individuals responsible for designing sealant joints and those who are to apply Tremco silicone sealants become familiar with the most updated versions of the following industry guidelines and best practices:
  - AS 1288 Appendix F – Glass in Buildings – Selection and Installation
  - AS 2047 – Windows and external glazed doors in buildings
- ❑ For structural glazing application (i.e. tensile bead), please follow information provided in Tremco's "In-Plant Structural Glazing Manual & Handbook".

### SUBSTRATE PREPARATION

- ❑ Substrates for every structural silicone glazed project should be submitted for adhesion and compatibility testing by Tremco prior to commencement of glazing. The surface preparation (cleaning method and primer, if required) for each structural glazing project will be recommended based on production run sample substrates, supplied by the customer and based on laboratory testing performed by Tremco.

- ❑ Joint interfaces must be clean, dry, and free from any foreign matter prior to sealant application. Metal, glass and other non-porous surfaces should be wiped clean with a solvent dampened clean cloth, followed immediately by a dry wipe with a clean, lint-free cloth before the solvent evaporates (i.e. 2 rag method). Preferred solvent is Tremco's IPA Cleaner. Follow all precautions on label during handling of solvent. A trial application of the solvent is recommended to ensure there is no adverse reaction with the substrate.

### FRAME HANDLING

- ❑ Handling of frames or units with freshly applied material is possible up to 2 hours after application. After this, the glass or frames must not be moved for 24 hours. Stacking of units is prohibited. On-site installations can be carried out from 2 to 3 days after manufacturing.
- ❑ FPC and adhesion test results must be reviewed before installation.

### SEALANT BACKING

- ❑ Special consideration must be taken when using a silicone sealant as a tensile bead in structural glazing applications. Consult Tremco for a structural glazing shop drawing review and recommendations.
- ❑ Tremco SGT Tape (Structural Glazing Tape), is the recommended spacer tape to be use with Tremco structural silicone sealants. Tremco SGT tape should be used to control the depth of the joint to the requirements set out in AS 1288 Appendix F, and the engineer of records required tensile bead joint depth.

### METHOD OF APPLICATION

- ❑ Structural glazing operations must be carried out in line with the information contained with Tremco's "In-Plant Structural Glazing Manual & Handbook" and in consultation with a Tremco CPG Technical representative.
- ❑ Proglaze II can easily be applied with Tremco approved multicomponent metered dispensing equipment. Hand mixing or mechanical mixing of the base and curing agent is not acceptable. Contact Tremco for proper equipment specifications.
- ❑ The sealant should be applied in a continuous operation with adequate pressure to wet out both sides of the joint and entirely fill the joint to its proper width and contact depth.
- ❑ Dry tool the sealant immediately after its application to ensure positive and complete contact of the sealant to joint interfaces. Should masking be required to prevent contamination of adjacent surfaces, it is recommended that the masking tape be removed immediately after tooling and before the sealant sets.
- ❑ Adhesion of Tremco Proglaze II to the glazing substrates and overall performance of the multi-component metered dispensing equipment should be verified on a periodic basis (i.e. minimum once per shift). This will ensure trouble free installation and prevent costly and unnecessary site inspection to confirm adhesion. During periodic shutdowns of the equipment in excess of 10 minutes, it is suggested the pump lines be purged with uncatalysed base. Contact the equipment supplier for proper operation procedures of the equipment.

### CLEAN UP

- ❑ Cleaning of all tools, etc. can be accomplished with Tremco's IPA Cleaner while the sealant is in uncured state.
- ❑ On non-porous surfaces; immediately remove all excess sealant and smears adjacent to the joint with one of the above solvents.
- ❑ On porous surfaces; allow the unwanted sealant to develop initial cure and then remove the sealant by abrasion or other mechanical means.

### HEALTH & SAFETY PRECAUTIONS

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

### TECHNICAL SERVICE

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

Any information provided by Tremco CPG Australia in this document in relation to Tremco CPG Australia's goods or their use is given in good faith and is believed by Tremco CPG Australia 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 CPG Australia 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.

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