

PROglaze®

HIGH PERFORMANCE, SINGLE-COMPONENT SILICONE SEALANT

Key Benefits Summary

- High Modulus
- Rapid Cure
- Non-sag
- Single component: no mixing
- Exceptional weather resistance
- +/-25% movement accommodation

Standards

PROglaze meets the test requirements of the following Federal Specifications/Standards:

- BS 5889 Type B
- TT-S-00230C (COM-NBS) Class A, Federal Specification, Non Sag for One Component Sealants.
- TT-S-001543A (COM-NBS) Class A. Federal Specification. Non Sag for Silicone Building Sealants.
- ASTM C920-87 Standard Specifications for Elastomeric Joint Sealant, Type S, Grade NS, Class 25, use NT, G and A.
- CAN/CGSB-19.13-M87, Sealing Compound, One Component, Elastomeric, Chemical Curing, MG-2-25-A-L.

PRODUCT INFORMATION

DESCRIPTION

PROglaze is a one-part, high modulus, silicone construction sealant.

USAGE/PURPOSE

- Tremco PROglaze produces a long life, weathertight seal in combination with glass, metal, porcelain, ceramic and most painted surfaces.
- Provides a high performance seal for a wide variety of glazing applications such as cap bead, toe bead, heel bead, butt glazing, and metal-to-metal joints. Additional uses include a variety of in-plant applications where a gun grade sealant is required.

LIMITATIONS

PROglaze is not recommended:

- For structural glazing applications.
- PROglaze should not be applied to masonry surfaces such as; concrete, limestone, granite, and marble, or metal such as; copper, lead or galvanised, substrates containing oil such as; certain vulcanized rubber gaskets, glazing tapes and impregnated wood, and surfaces to which paint will be applied after application of the sealant. Paint films do not exhibit good adhesion to PROglaze and may split and peel under dynamic movement conditions.
- PROglaze is not recommended where physical abrasion or abuse is encountered in horizontal joints; in continuous submerged applications and in confined or air free spaces.
- PROglaze should not be used where mildew resistance is required.
- In remedial sealing application, all existing old sealant must be removed prior to resealing with PROglaze. A test installation is recommended.

Consult your Tremco Representative and design professional for specific applications.

COLOUR

Black

PACKAGING

Tremco PROglaze is available in 300ml plastic cartridges. 30 Cartridges to a case.

TECHNICAL INFORMATION

COMPOSITION

Tremco PROglaze Silicone Sealant is a one-part, moisture curing, silicone sealant, easily gunned under all types of weather conditions. It rapidly cures to produce a durable, flexible seal.

PERFORMANCE (Typical Properties)

Hardness (Shore A); ASTM C661	26-30
Tear Strength; ASTM C624	40.0 - 43.0 psi (7.0-7.5kN/m)
Tensile Strength (max): ASTM D412	300-400 psi (2.06-2.75Mpa)



PROglaze

Elongation	450-550%
100% Modulus	50-80psi (0.345-0.552Mpa)
Peel Strength (glass & aluminum)	
ASTM C794	20ppi (2.28-2.63 kN/m)
Dynamic Movement; ASTM C719	+/-25%
Tooling Time; Skin Formation	7-15 min
Tack Free Time; ASTM C679	10-20 mins
Sag; ASTM D2202	0.4mm 0.01"
Cure Through	Cure rate for 6mm at 23°C and 50% RH, 24-28 hours.
Service Temperature	-54°C to +204°C
Application Temperature	-18°C to 60°C

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

USAGE GUIDELINES

JOINT DESIGN CONSIDERATION

- Width to depth ratio of PROglaze 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.

SURFACE PREPARATION

- All surfaces should be clean, dry and free from foreign matter prior to priming and/or sealant application.
- Metal, glass and other non-porous surfaces should be wiped clean with a solvent dampened clean rag, followed immediately by a dry wipe with a clean lint free cloth before the solvent evaporates. Preferred solvents are isopropyl alcohol (IPA) or methyl ethyl ketone (MEK). A trial application of the solvent to the finish is recommended to ensure there is no adverse reaction (follow all precautions on the solvent label). When necessary, surfaces should be primed with recommended primer.

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.

PRIMING

For maximum adhesion on certain surfaces, priming is recommended. For advice on primer please consult you nearest Tremco office.

METHOD OF APPLICATION

- PROglaze can easily be applied with conventional hand or air powered caulking equipment.
- The sealant should be applied in a continuous operation, with adequate pressure to entirely fill the joint width and depth.
- Tool the sealant with light pressure immediately after application to ensure positive and complete contact of the sealant to the joint interfaces. Tooling can be accomplished with a tooling stick or icing knife. Dry tooling is recommended. PROglaze can be applied at outdoor temperatures as low as -18°C provided that surfaces to which the sealant is to be applied are clean, dry and frost free.
- We recommend for best conditions and performance, that the sealant be applied above 4°C.
- Should masking be required to prevent contamination of adjacent surfaces, it is recommended that the masking tape be removed immediately after tooling.

CLEANING

- Cleaning of all tools, etc. can be accomplished with solvents such as IPA, Xylol, Toluol or MEK 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 AND SAFETY PRECAUTIONS

- Avoid contact with skin, eyes and mouth and avoid breathing vapour.
- Use in well ventilated area. If in eyes immediately flush with water for 15 minutes. If irritation persists, 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.
- Always read and follow label instruction and Material Safety Data Sheet for Tremco products and products used in conjunction with Tremco products before use.



PROglaze

STORAGE

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

SHELF LIFE

12 months from date of manufacture when stored in dry areas at temperatures under 27°C in original unopened containers.

TECHNICAL SERVICE

TREMCO has a team of qualified Technical Sales Representatives. 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.