

Tremflex PU1

One part medium modulus polyurethane elastomeric sealant

Key Benefits Summary

- One part - no mixing.
- Wide movement accommodation total 50%.
- Very flexible
- Rapid cure.
- Over paintable.
- Excellent adhesion to most common building substrates.
- Easy to tool and apply.

Standards:

- ASTM C-920
- 77-S-00230C Type II Class A

Product Information:

Description:

Tremflex PU1 is a one part medium modulus polyurethane based elastomeric sealant that cures to form a tough and highly flexible seal with a wide temperature application range and a total joint movement capability of 50%.

Usage/Purpose:

- Perimeter sealing of windows.
- Curtain wall sealing.
- Masonry joints.
- Precast and tilt panel expansion/construction joints.
- Sealing of sheet metal and building claddings.
- General sealing of construction joints.
- General purpose adhesive for timber, ceramics, stainless steel, aluminium and most plastics.

Limitations:

- Not suitable for permanent immersion in water.
- Not to be applied on damp or contaminated surfaces.
- Not suitable for wide joints subject to traffic.

Colour:

Grey, Black, White, Beige

Packaging:

Tremflex PU1 is packaged in 600ml sausages (15 per carton).

Technical Information:

Composition:

Tremflex PU1 is a one part moisture curing polyurethane sealant.

Characteristics:

Specific Gravity (1502811) ASTM-D1475 (at 20°C) Approx 1.20
Hardness (ISO868/3sec) ASTM D2240 25-35 Shore A

Performance (Typical Properties):

Service temperature range:	-40°C to +90°C (cyclic)
Application temperature:	5°C to 40°C
Shrinkage:	Negligible
Elongation @ break	>700 (ASTM D412)
Tensile strength (ASTM D412)	2.5Kp/cm ² @50% elongation 3-3.5Kp/cm ² @100% elongation
Tooling time:	Approx. 10 minutes
Touch free time:	1-2 hours @ 25°C and 55% RH
Cure rate:	Approx. 2-3mm/day

Note: Typical properties should not be used as Specifications.

Usage Guidelines:

Joint Design Considerations:

Joint size should be 4 times the anticipated movement. For optimum performance, the width to depth ratio of Tremflex PU1 should be subject to a minimum depth of 10mm on porous substrates and 6mm on non-porous substrates. Sealant width should never 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.

Substrate Preparation:

Joint faces should be clean, dry, sound and free from any contaminants likely to impair adhesion. Remove any loose or friable surfaces such as cement laitence etc. If necessary clean substrate with Xylol or Methyl Ethyl Ketone (MEK), do not use soap and water. If required, apply the recommended Tremco Primer and allow to dry.

Application:

Recommended application temperature range +5°C to +40°C. For cold weather application store the sausages at 20°C before using. Install an approved closed or open cell round polyethylene joint backing to control the depth of sealant. Use correct size backing rod to achieve recommended compression (20-30%). A self adhesive bond breaker tape can be used when the joint shape does not allow the use of joint backing. Dry tooling is recommended, immediately after application of sealant.

Priming:

Tremflex PU1 does not need a primer for most building substrates. However, for new applications, field adhesion testing is recommended before commencement of the main installation. Tremco can also provide laboratory substrate adhesion tests at customer request.

Method Of Application:

Tremflex PU1 is supplied in a non-sag consistency which guns easily using conventional skeleton guns for cartridge and full barrel bulk guns for sausages.

Coverage Rate:

Width	6mm	10mm	15mm	20mm	25mm
Depth					
6mm (min)	16	10	-	-	-
10mm	-	-	4	3	2.4
12mm (max)	-	-	-	-	2

Cleaning:

Remove excess sealant and smears adjacent to the joint (use masking tape where appropriate). Equipment may be cleaned with MEK, Xylol or Toluol, cured sealant can only be removed mechanically.

Health & Safety Precautions:

Avoid contact with skin and eyes. May cause irritation and skin sensitisation. Product contains flammable solvent. Always ensure adequate ventilation and keep away from flames and ignition sources. Material Safety Data Sheet must be read and understood before use.

Storage:

Store in shaded dry conditions between +5°C and +25°C.

Shelf Life:

12 months when stored as recommended in original unopened containers.

Guarantee/Warranty:

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

Equus Industries Ltd
PO Box 601
Blenheim
Phone: 03 578 0214 Fax 03 578 0919
Email: admin@equus.co.nz