Preflex PU
High Modulus Elastomeric Adhesive Sealant

DESCRIPTION

PREFLEX PU is a high modulus, one component, polyurethane hybrid based sealant and adhesive that remains permanently elastic and has good adhesion to most substrates.

USES

Preflex PU is typically used for expansion joint sealing in concrete panels, floor joint and road and bridge construction. Sealing in applications subject to vibration and mechanical abrasion. It is particularly suitable for marine applications where the cured sealant provides resistance to salt water Multitude of sealing and bonding applications in the automotive and engineering markets. High traffic floor joints such as those found in garage forecourts, warehouse, factory floors, sports arenas, shopping centres etc. Preflex PU may be painted once cured—please confirm with the Premcrete Technical Department prior to application.

ADVANTAGES

- Excellent adhesion to a wide range of substrates
- Excellent chemical resistance
- Rapid curing
- Withstands vehicular trafficking
- Cures to form a tough but flexible seal
- Excellent abrasion resistance

TYPICAL PROPERTIES

Appearance	Single component grey paste
Movement Accommodation Factor	Butt joints 20 % (movement in tension and compression)
Shore A Hardness	50
Elastic Recovery	>90%
Elongation at Break	400%
Modulus of Elasticity	0.94 N/mm2
Curing Time	3mm / 24 hours
Service Temperature	-40 to +90 degrees Celsius
Application Temperature	+5 to +40 degrees Celsius
Flammability	Will burn but not readily ignite; it does not therefore constitute a fire hazard.
UV Resistance	Good
Chemical Resistance	Excellent resistant to most dilute alkalis and dilute acids, petrol, diesel, jet fuel, and other solvents and vegetable oils.
Service Life	15 + Years

PREMCRETE
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PROCEDURE

Preparation: The substrate should be completely dry and free of dirt or any other contamination. Remove any contamination or dirt by grinding or shot-blasting. Metal surfaces should be free from rust and degreased using a suitable degreaser.
A bond breaking tape should be inserted between the joint filler board and the sealant so as to prevent adhesion.
Masking tape can be used along each edge of the joint, so as to create a neat finish. Remove the tape after tooling and before the sealant sets.

Priming: On porous surfaces use Preflex Porous Primer. Allow the primer to dry for 30–120 minutes before applying the Preflex PU

Application: The sealant is supplied in a foil sachet which fits into a Preflex Sealant Gun. The end of the sachet should be cut off before placing into the applicator gun. Fit the appropriate nozzle onto the gun before extruding the sealant firmly into the joint. Once applied the sealant should be tooled flush or slightly recessed from the substrate, ensuring the sealant is in contact with the faces of the joint.

Equipment Cleaning: Clean equipment immediately after use with Premcrete Solvent Cleaner.

Curing: The applied sealant will have cured sufficiently after 24 hours to be lightly trafficked however full cure is dependent on the size of the joint. Typical cure rate will be 3mm per 24 hours, ie a joint 9mm deep will have fully cured after 72 hours.

PACKAGING & COVERAGE

Pack Size: 600ml sachets
Coverage: A 600ml sachet is sufficient to seal 6 linear metres of 10 x 10mm joint

STORAGE

Store in dry conditions at temperatures between 10C and 25C. Do not expose to freezing conditions.
Preflex PU has a minimum shelf life of 12 months if stored in original unopened containers.

HEALTH AND SAFETY

Avoid contact of material with the skin and eyes. Wear appropriate gloves, overalls and eye protection during use.
Any eye contamination must be rapidly irrigated with copious quantities of water and medical attention should be sought immediately.

Please refer to the material safety datasheet for additional information.

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