FLEXANE® 80 PUTTY

Trowelable Urethane

Description:

DEVCON® Flexane® 80 Putty is a trowelable urethane compound for repairing and lining process equipment exposed to wear, impact, abrasion, vibration and expansion / contraction.

Intended Use:

- Repair and rebuild conveyor belts
- Line process equipment to dampen
- Line concrete control joints
- Cast flexible moulds, fixtures and parts
- Pot and encapsulate

Product Features:

- **Trowels on smoothly.**
- **Room temperature curing urethane / no heat required.**
- **Cures to tough, medium-hard rubber (Shore 87A).**
- **Low shrinkage.**
- **Bonds to metal, concrete, rubber, wood & fibreglass surfaces.**

Typical Physical Properties:

Technical data should be considered representative or typical only and should not be used for specification purposes.

		TEST METHODS
Colour	Black	
Mix Ratio (Resin to hardener)	Weight 72:28	
Mixed Viscosity	Putty	
Work Time of 450gms minutes at 24˚C	20	
Cure Time	12 hours	
Demoulding Time	10 hours	
% Solids by Volume	100	
Specific Volume	850cm^3/kg	
Cure Shrinkage	0.0014cm/cm	ASTM D2566
Hardness Shore A	87	ASTM D2240
Tear Resistance (kg/cm)	53.4	ASTM D624
Tensile Strength	11.7 MPa	ASTM D412
Maximum Elongation	300%	ASTM D412
Dielectric Strength	13,800 volts/mm	ASTM D149
Maximum Operating Temperature	Wet: 49˚C, Dry: 82˚C	
Coverage (per 450gm Kit)	606cm^2 @ 6mm	

Surface Preparation:

Metal – Thoroughly clean the area that is to be repaired, rebuilt or lined, by using Devcon® Surface Cleaner. All oil, grease and dirt must be removed before applying Flexane® material. All surfaces must be roughened by grinding with a coarse wheel or an abrasive disc pad.

Rubber – Thoroughly clean the rubber area with an abrasive pad and Devcon® Surface Cleaner. A grinding wheel may be used to roughen the rubber surface. The rubber surface must be coarse and free from oil and dirt clogged in the

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"pores". Using Devcon® Surface Cleaner wipe or roughen surface until the colour of the rubber substrate no longer appears on cloth. The rubber should look new or a deeper black in colour.

Priming surfaces – For metal surfaces apply a coat of Devcon® FL10 Primer and allow to dry tack free for 30 minutes. For surfaces that require the maximum tear resistance and are being used in a submersible application or wet environment, use Devcon® FL10 Primer followed by Devcon® FL20 Primer. For rubber surfaces apply a coat of Devcon® FL20 Primer and allow to dry tack free for 15-20 minutes. Use this primer on all types of rubber and urethane surfaces. For porous rubber surfaces, it may be necessary to do multiple coats.

Maximum adhesion – Sandblast the surface using an angular abrasive to achieve minimum depth profile of 50 - 75 microns. Abrasive blast clean in accordance with Australian Standard AS1627:4-2005 to a Class 2 ½ near white metal finish. After sandblasting, application surface should be primed immediately to prevent oxidation.

Mixing Instructions:

Ideal application temperature is 18ºC - 29ºC.

Mix Ratio – Resin to Hardener: Weight 72 : 28

It is strongly recommended that full units be mixed, as ratios are pre-measured.

1. Add hardener to resin.

2. Mix thoroughly with a spatula or similar tool (continuously scrape material away from sides and bottom of container) for two (2) minutes. NOTE: Flexane® putties will thicken rapidly during these first two minutes of mixing, but this DOES NOT mean that the polymer is curing.

3. Transfer the mixed material to the plastic container (included in kit).

4. Wipe spatula clean and stir again for two (2) more minutes.

5. Continue to mix until a uniform, streak-free consistency is obtained.

Application Instructions:

For MAXIMUM ADHESION, apply a suitable Devcon® Primer to all substrates prior to application.

Metals FL-10 Primer Fibreglass FL-20 Primer

Rubber FL-20 Primer Concrete FL-20 Primer

Wood FL-20 Primer Rigid Plastics FL-20 Primer (2 coats)

1. Trowel the Flexane® Putty into the repair area. Use a spatula to compress the urethane onto the surface. This helps "wet out" the surface and stop any blow holes or air pockets forming which could interfere with adhesion.

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2. Allow to cure six (6) hours before returning equipment to light service. The repair may be ground flush using a 24 or 36 grit sanding disc. Be careful to keep the grinder moving and do not overheat the work surface. Full cure takes 7 days @ 24°C.

Storage:

Store in dry conditions between 10°C and 40°C, away from sources of heat and naked flames. Protect from frost. When stored in original sealed containers, the minimum shelf life is two (2) years.

Warranty:

Devcon® will replace any material found to be defective. Because the storage, handling and application of this material is beyond our control, we can accept no liability for the results obtained.

Disclaimer:

All information on this data sheet is based on laboratory testing and is not intended for design purposes. ITW Polymers & Fluids and Devcon® makes no representations or warranties of any kind concerning this data.

Order Information:

450gm kit D15820

Health & Safety Information:

For Health & Safety Information, refer to Safety Data sheet available from ITW Polymers & Fluids upon request on our website www.devcon.com.au or www.devcon.co.nz

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