



TECHNICAL DATA

FLEXANE BRUSHABLE

Brushable Urethane Compound

Description

Flexane Brushable is a tough, rubber-like urethane compound for making a broad range of repairs to protect against wear, abrasion and noise reduction.

Areas of application

- Protect equipment surfaces from wear and abrasion
- Protect processing equipment such as coating hoppers, lining chutes, pump volutes, impellers and fan housings

Features

- Two part compound mixes easily
- Bonds with primers to metal, concrete, rubber, wood and fibreglass
- Excellent tear resistance
- Coats up to 1.25 mm in one pass
- Highly resistant to impact and abrasion

Chemical Resistance

(Chemical resistance is calculated with a 7 day, room temperature cure (30 days immersion) @ 24°C)

1,1,1 Trichloroethane	Poor	Phosphoric 50%	Fair
Aluminium Sulphate 10%	Very good	Potassium Hydroxide 40%	Very good
Cutting Oil	Fair	Sodium Hydroxide 50%	Very good
Hydrochloric 10%	Fair	Sulphuric 50%	Fair
Isopropanol	Poor	Xylene	Poor
Methyl Ethyl Ketone	Poor		
Phosphoric 10%	Fair		

The information contained in this Technical Bulletin is as up to date and correct as possible as at the time of issue. The data provided should be used as a guide only as the performance of the product will vary depending on differing operating conditions and application methods.

The sale of any product described in this Technical Bulletin will be in accordance with ITW Polymers & Fluids Conditions Of Sale, a copy of which is available on request. To the extent permitted by law, ITW Polymers & Fluids excludes all other warranties in relation to this product.

Limitations

Keep from freezing. The resin may crystallize if exposed to temperatures below 10°C. This does not affect the properties of the product. If after opening, resin has an opaque, whitish colour, apply lid and allow can to stand at 21°C overnight or until resin becomes clear.

Technical Data

Typical Physical Properties: Cured 7 days @ 24°C

		Test Method
Colour	Black	
Mix Ratio (Resin to Hardener)	Weight 80: 20	
Mixed Viscosity (cps)	40,000	
Work Time of 450gms minutes @ 24°C	45	
Cure Time	24 hours	
% Solids by Volume	77	
Specific Volume	940cm ³ /kg	
Cure Shrinkage	0.23 cm/cm	ASTM D2566
Hardness Shore A	86	ASTM D2240
Tear Resistance (kg/cm)	71.4	ASTM D624
Tensile Strength	24.1 MPa	ASTM D638
Maximum Elongation	600%	ASTM D412
Abrasion Resistance (H18 wheel/1,000 cycles)	90mg loss per 1,000 revolutions	
Dielectric Strength	13,385 volts/mm	ASTM D149
Maximum Operating Temperature	Wet: 49°C, Dry: 82°C	
Coverage (per 450gm Kit)	671 cm ² @ 6mm	

Directions for use

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 “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

Ideal application temperature is 18°C - 29°C.

Mix Ratio – Resin to hardener: Weight 80 : 20

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

1. Add hardener to resin.

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2. Mix thoroughly with a spatula or similar tool (continuously scrape material away from sides and bottom of container) for two (2) minutes.
3. Transfer the mixed material to the plastic container (included in kit).
4. Wipe spatula clean, and stir again for two (2) more minutes.

Application

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

Metals	FL-10 Primer (2 coats)	Fibreglass	FL-20 Primer
Rubber	FL-20 Primer	Concrete	FL-20 Primer
Wood	FL-20 Primer	Rigid Plastics	FL-20 Primer

1. Brush a coat of Urethane over the substrate. Be sure to smooth surface to desired finish.
2. Allow to cure ten (10) hours before returning 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. Allow Flexane Brushable to cure 24 hours before running operation at optimum speed. Full cure takes 7 days @ 24°C.

Additional Information

Devcon® Flexane Accelerator is used for speeding up the cure of Flexane at temperatures as low as 0°C. Two grams (½ teaspoon) of Accelerator will reduce the cure time of 450gm of Flexane by 50%. Do not use more than 8gm (2 teaspoons) of Accelerator with each 450gm of Flexane.

Storage and Shelf Life

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.

Packaging

Flexane Brushable is available in a 450gm kit.

Ordering Information:

450 gm Kit #D15350

Health & Safety Information

The product is hazardous. A Material Safety Data Sheet is available from the ITW Polymers & Fluids Technical Department upon request or available on our website www.itw-devcon.com.au.

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