



FLEXANE BRUSHABLE PRODUCT BULLETIN

Product Description

A tough rubber-like urethane compound for making a broad range of repairs for protection against wear, abrasion and noise reduction.

Features and benefits

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

Recommended Applications

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

Typical Physical Properties: Cured 7 days @ 24°C

Colour	Black
Mix ratio resin: curing agent, ratio % by weight	80:20
Specific volume cm ³ /kg	938
Coverage cm ² /kg @ 5 mm thick	1865
Viscosity with hardener (cps)	40,000
Pot Life of 0.5kg @ 24°C	45 minutes
Demoulding time (hours)	16
Operating temperature maximum °C	Dry 82°C Wet 49°C
Cured Hardness Shore D ASTM D2240	86D
Tensile strength, psi ASTM D412	24 Mpa
Cure shrinkage ASTM D2566 cm/cm	0.23
Dielectric strength ASTM D149 volts/mm	5866
Tear resistance, kg/cm ASTMD D624	70

Preparation

Metal – Thoroughly clean the area that is to be repaired, rebuilt or lined, by using Cleaner Blend 300 (stock no. 19515). 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 Cleaner Blend 300. 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 Cleaner Blend 300 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 FL10 Primer and allow to dry tack free for 15 minutes. For surfaces that require the maximum tear resistance and are being used in a submersible application or wet environment, use FL10 followed by FL20 primer. For rubber surfaces apply a coat of 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. Blast to near white finish specification SSPC-SP5 (Steel Structure Painting Council). After sandblasting, application surface should be primed immediately to prevent oxidation.

Mixing – Add curing agent to the Flexane resin and stir vigorously for 2 minutes. Be sure to mix along the bottom and side of the container. Transfer material to the plastic container, wipe the spatula clean and stir again for 2 minutes.

Material Temperature

Flexane should be 18-27°C when mixing. Flexane thickens at lower temperatures, making satisfactory mixing difficult. Higher material temperature results in shorter working time and reduced hardness and physical properties.

Flexane Brushable 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.

Working time of Flexane Brushable is 45 minutes at 24°C.

Application

First brush a coat of Urethane over the substrate. Be sure to smooth surface to desired finish.

Cure – Most Flexane parts will cure to a rubbery solid overnight at 24°C. Flexane will reach 70-95% strength in 2 days and achieve full properties in 7 days. All Flexanes can be safely accelerated by the application of heat after an initial cure overnight at room temperature. Heat Flexane at 65°C, for 24 hours to achieve 100% cure.

PRECAUTION

For complete safe and handling information, please refer to the appropriate Material Safety Data Sheets prior to using this product.

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.

ORDERING INFORMATION

Flexane Brushable 15350 0.450kg

Shelf life: 18 months minimum (unopened and stored at ambient temperature).

MANUFACTURED BY
ITW Polymers & Fluids
100 Hassall Street
Wetherill Park NSW 2164

QUEENSLAND DISTRIBUTOR
INTERNATIONAL TRADERS Pty Ltd
6/286 Evans Rd
Salisbury - BRISBANE - QLD 4107
Phone (07) 3272 9051 Fax (07) 3272 9744