

Description:	A medium-viscosity castable, non-shrinking urethane compound.			
Intended Use:	Industrial Use: Reproduce low- to medium-volume or discontinued rubber parts; form flexible molds and non-scratching holding fixtures/linings; encapsulate wire and electronics subject to impact, vibration, expansion, and contraction			
Features:	10-hour demolding time, Room temperature curing urethane/no heat required, Mixes and pours easily			
Limitations:	Suitability of product is determined by the end user for their application and process.			
Typical	Technical data should be considered representative or typical only and should not be used for specification purposes.			
Physical Properties:	Cured 7 Days @ 75°F (24°C) Cured Shrinkage Dielectric Strength Functional Cure Hardness Maximum Elongation Maximum Operating Temperature Percent Solids by Volume Taber Abrasion (H-18, dry) Tear Resistance Tensile Strength Uncured Properties @ 72°F (23°C) Color Coverage (1/4" / 6.35mm) Demolding Time Mix Ratio (wt) Mixed Viscosity Pot Life Specific Volume	Typical Values 0.0018 in/in (cm/cm) 350 volts/mil (13.8 kV/mm) 16 hours 87 Shore A 650% Dry: 180°F (82°C); Wet: 120°F (49°C) 100 0.273 cm3 (1000g, 1000revs) 350 pli (61.3 N/mm) 2,100 psi (14.5 Mpa) Black 106 in2/lb. (1508 cm2/kg) 10 hrs. 77 resin : 23 curing agent 10,000 cP 30 min. @ 75°F (24°C) 26.5 in3/lb (0.957 cm3/g)	Standard Tests Dielectric Strength, volts/mil ASTM D 149 Tensile Strength (Urethanes) ASTM D 412 Cured Hardness Shore D ASTM D 2240 Cure Shrinkage ASTM D 2566 Tear Resistance ASTM D 624 Maximum Elongation ASTM D 412	
Surface Preparation:	For METAL SURFACES, thoroughly clean area to be repaired, rebuilt, or lined with Devcon® Cleaner Blend 300. Remove any oil, grease, or dirt. Roughen surface by grinding with a coarse wheel or an abrasive disc pad. To prime this surface, apply a coat of Devcon FL-10 Primer and allow to dry tack-free for 5-15 minutes. If the metal surface requires maximum tear resistance or is exposed to moisture, or if submerged in water, use Devcon® FL-10 and Devcon® FL-20 Primer. For RUBBER SURFACES, thoroughly clean area with an abrasive pad and Devcon® Cleaner Blend 300. Surface can also be roughened with a grinding wheel so that it is coarse and free from oil and dirt that may clog the "pores" of the rubber. Wipe or roughen surface with Cleaner Blend 300 until the cloth no longer picks up the color of the rubber. The rubber should appear new or deeper in color. To prime this surface, apply a coat of Devcon® FL-20 Primer and allow to dry tack-free for 15-20 minutes. Use Devcon®FL-40 Primer on "hard-to-bond" rubber surfaces as this gives ultimate peel resistance. Multiple coats may be necessary for porous rubber surfaces. For MAXIMUM ADHESION, sandblast the surface with an angular abrasive until a minimum depth profile of 2-3 mils is met.			
	Blast to near-white finish specification SSPC-SP5 (Steel Structure Painting Council). Prime surface immediately after sandblasting to prevent oxidation.			
Mixing Instructions:	To ensure proper cure speeds and hardness, mix Flexane at a temperature between 65°F-85°F (18°C- 29°C) FOR 1 LB. UNITS: 1.Follow application instructions and mix thoroughly FOR 10LB. UNITS: Use a propeller-type Jiffy Mixer Model ES on an electric drill. Mix until color is uniform and consistent (approx. 4-6 min.).			
	NOTE: Completely submerge propeller, otherwise large amounts of air will be added resulting in air bubbles on the finished product's surface.			
Application Instructions:	FOR MAXIMUM ADHESION, apply a Metals FL-10 Primer Rubber FL-20 Primer Wood FL-20 Primer Fiberglass FL-20 Primer Concrete FL-20 Primer	suitable Devcon primer to all substrates prior to	application	

	Rigid Plastics FL-20 Primer (2 coats)		
	 Brush a thin coat of Flexane over the substrate, then pour from one side of the mold to the other side, so as to evacuate any air as the Flexane fills the area. Gently blow hot air over the finished surface to ensure a perfect mold with no blow holes or air entrapment. Use a hot air gun and and gently wave over the surface to break all the air bubbles. Allow to cure ten (10) hours before returning equipment to light service. The repair may then be ground flush using a 24 or 36 grit sanding disc. Do not overheat the work surface. Full cure takes seven (7) days @ 70°F. 		
	ADDITIONAL INFORMATION Flex-Add Flexibilizer is used with Flexane 80 Liquid to produce a urethane with a durometer below 87A. This allows for custom mixing of urethanes for specific applications requirements. (See Flex-Add TDS for further information)		
	Flexane Accelerator is used to increase Flexane's cure speed at temperatures as low as 32°F (0°C). One-half tsp. (2 gms) of Accelerator reduces the cure time of 1 lb (0.45 kg). of Flexane by 50%. Use 2 tsp. or less of Accelerator for each 1 lb. of Flexane. See Flexane Accelerator TDS for further information.		
Storage:	Store in a cool, dry place.		
Compliances:	None		
Chemical Resistance:	Chemical resistance is calculated with a 7-day, room temp. cure (30 days immersion) @ 75°F / 24°C1,1,1-TrichloroethanePoorAluminum Sulfate 10%Very goodCutting OilFairGasoline (Unleaded)PoorHydrochloric 10%Very goodKydrochloric 36%Very goodIsopropanolPoorMethyl Ethyl KetonePoor		
Precautions:	FOR INDUSTRIAL USE ONLY: Please refer to the appropriate Safety Data Sheet prior to using this product.		
Warranty:	ITW Performance Polymers 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.		
Order Information:	Item No.Package Size158001 lb. kit America / 500 gm Kit EMEA1581010 lb. Americas		
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