

I

Flexane	® 80 Liquid					
Description:	A medium-viscosity castable, nonshrinking urethane compound.					
Intended Use:	Reproduce low- to medium-volume or discontinued rubber parts; form flexible molds and nonscratching holding fixtures/linings; encapsulate wire and electronics subject to impact, vibration, expansion, and contraction.					
Product features:	10-hour demolding time Room temperature curing urethane/no heat required Mixes and pours easily					
Limitations:	None					
Typical Physical Properties:	Technical data should be considered representative or typical only and should not be used for specification purposes. Cured 7 days @ 75° F					
	Color Mix Ratio Mixed Viscosity % Solids by Volume Specific Volume Cured Shrinkage Maximum Operating Temperature Coverage / Ib Cured Hardness Dielectric Strength Demolding Time Tensile Strength Tear Resistance Maximum Elongation Abrasion Resistance Functional Cure Pot Life	Black 77resin: 23 curing agent (by wt.) 10,000 cps 100 26.5 in.(3)/lb. 0.0018 in./in. Dry: 180°F; Wet: 120°F 106 sq.in./lb. @ 1/4" 87A 350 volts/mils 10 hrs. 2,100 psi 350 pli 650% 285 mg loss per 1,000 revolutions 16 hours 30 min. @ 75°F	TESTS CONDUCTED 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 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					
Mixing Instructions:	 sandblasting to prevent oxidation. To ensure proper cure speeds and hardness, mix Flexane at a temperature between 65°F-85°F 1.Add hardener to resin. 2.Vigorously mix with screwdriver or spatula for two minutes, while continuously scraping material away from sides and bottom of container. 3.Transfer the mixed material to the plastic container (included in kit). 4.Wipe spatula clean, and stir again for two more minutes. FOR 400ML CARTRIDGES: 					

Application Instructions:	 1.Attach mix nozzle to cartridge 2.Follow application instructions; no mixing is required. 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. FOR MAXIMUM ADHESION, apply a suitable Devcon primer to all substrates prior to application Metals FL-10 Primer Rubber FL-20 Primer Rubber FL-20 Primer Rigid Plastics FL-20 Primer Rigid Plastics FL-20 Primer (2 coats) 1.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. 2.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 gently wave over the surface to break all the air bubbles. 3.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 TDS for further information) Flexane Accelerator is used to increase Flexane's cure speed at temperatures as low as 32°F. One-half tsp. (2 gms) of 					
	Accelerator reduces the cure time of 1 lb. 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 at room temperature.					
Compliances:	None					
Chemical	Chemical resistance is calculated	with a 7 day, room tem	p. cure (30 days immersion) @ 75°F)			
Resistance:	1,1,1-Trichloroethane	Poor	Phosphoric 10%	Very good		
	Aluminum Sulfate 10%	Very good	Potassium Hydroxide 40%	Very good		
	Cutting Oil	Fair	Sodium Hydroxide 50%	Very good		
	Gasoline (Unleaded)	Poor	Sodium Hypochlorite	Very good		
	Hydrochloric 10%	Very good	Xylene	Poor		
	Hydrochloric 36%	Very good				
	Isopropanol	Poor				
	Methyl Ethyl Ketone	Poor				
Precautions:	Please refer to the appropriate material safety data sheet (MSDS) prior to using this product. For technical assistance, please call 1-800-933-8266 FOR INDUSTRIAL USE ONLY					
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 Devcon makes no representations or warranties of any kind concerning this data.					
Order Information:	15800 1 lb. 15810 10 lb.					