

**Technical Data Sheet** 

4/17/2012

## A brand of *ITW* Polymers Adhesives North America

## Flexane<sup>®</sup> 94 Liquid

None

**Description:** 

A low-viscosity, castable, non-shrinking 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: Room temperature curing urethane/no heat required Mixes and pours easily 5-hour demolding time

Limitations:

Typical Physical Ρ

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

Physical Properties:	Cured 7 days @ 75° F Abrasion Resistance Color Coverage/lb Cured Hardness Cured Shrinkage Demolding Time Dielectric Strength Functional Cure Maximum Elongation Maximum Operating Temperature Mix Ratio Mixed Viscosity Percent Solids by Volume Pot Life Specific Volume Tear Resistance Tensile Strength	330 mg loss per 1,000 revolu Black 106 sq.in./lb.@ 1/4" 97A .0014 in.in. 5 hrs. 350 volts/mils 16 hours 500% Dry: 180°F; Wet: 120°F 69 resin:31curing agent / wt. 6,000 cps 100 10 min. @ 75°F 26.5 in.(3) /lb. 415 pli 2,800 psi	TESTS CONDUCTED Dielectric Strength, volts/mil ASTM D 149 Tensile Strength (Urethanes) ASTM D 412 Maximum Elongation ASTM D 412 Cure Shrinkage ASTM D 2566 Tear Resistance ASTM D 624 Cured Hardness Shore D ASTM D 2240		
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.				
Mixing Instructions:	<ul> <li>For Micromotion April 2010, satisfies the met. Blast to near-white finish specification sandblasting to prevent oxidation.</li> <li> To ensure proper cure speeds and har FOR 1 LB. UNITS</li> <li>1.Add hardener to resin.</li> <li>2.Vigorously mix with screwdriver or spatu bottom of container.</li> <li>3. Transfer the mixed material to the plastic</li> </ul>	rdness, mix Flexane at a temperatur ila for two minutes, while continuous	e between 65°F-85°F		

4. Wipe spatula clean, and stir again for two more minutes.

	FOR 400ML CARTRIDGES: 1.Attach mix nozzle to cartridge 2.Follow application instructions FOR 10LB. UNITS: Use a propeller-type Jiffy Mixer I Mix until color is uniform and con NOTE: Completely submerge pr finished product's surface.	; no mixing is required. Model ES on an electric nsistent (approx 4-6 min. opeller, otherwise large	drill. ). amounts of air will be added resulting in	n air bubbles on the	
Application Instructions:	FOR MAXIMUM ADHESION, apply a suitable Devcon primer to all substrates prior to application Metals FL-10 Primer Bubber FL-20 Primer				
	WoodFL-20 PrimerFiberglassFL-20 PrimerConcreteFL-20 PrimerRigid PlasticsFL-20 Primer (2)	coats)			
	<ol> <li>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.</li> <li>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.</li> <li>Allow to cure six (6) 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.</li> </ol>				
	ADDITIONAL INFORMATION Flexane Accelerator is used to ir Accelerator reduces the cure tim See Flexane Accelerator TDS for	speed at temperatures as low as 32 °F. 50%. Use 2 tsp. or less of Accelerator	One-half tsp. (2 gms) of for each 1 lb. of Flexane.		
Storage:	Store at room temperature, 70 °F.				
Compliances:	None				
Chemical	Chemical resistance is calculate	d with a 7 day, room ten	np. 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:	15250 1 lb. kit 15260 10 lb.				