**TESTS CONDUCTED** 

Dielectric Strength, volts/mil ASTM D 149

Cured Hardness Shore D ASTM D 2240

Maximum Elongation ASTM D 412

Cure Shrinkage ASTM D 2566

Tear Resistance ASTM D 624

Tensile Strength (Urethanes) ASTM D 412



# Flexane® 94 Liquid

Description: A low-viscosity, castable, non-shrinking urethane compound.

Reproduce low- to medium-volume or discontinued rubber parts; form flexible molds and nonscratching holding Intended Use:

fixtures/linings; encapsulate wire and electronics subject to impact, vibration, expansion, and contraction.

Product Room temperature curing urethane/no heat required

Mixes and pours easily features: 5-hour demolding time

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 Black 69 resin:31 curing agent (by wt.) Mix Ratio **Mixed Viscosity** 6,000 cps % Solids by Volume 100 Specific Volume 26.5 in.(3) /lb. **Cured Shrinkage** .0014 in.in.

Dry: 180°F; Wet: 120°F **Maximum Operating Temperature** 106 sq.in./lb.@ 1/4"

Coverage / Ib 97A

**Cured Hardness** 

**Dielectric Strength** 350 volts/mils **Demolding Time** 5 hrs. **Tensile Strength** 2,800 psi **Tear Resistance** 415 pli 500% **Maximum Elongation** 

Abrasion Resistance 330 mg loss per 1,000 revolutions (H 18 wheel/1,000 cycles)

**Functional Cure** 16 hours 10 min. @ 75°F Pot Life

## 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 tackfree 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. ----
- 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:

- 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.

# Application Instructions:

---- FOR MAXIMUM ADHESION, apply a suitable Devcon primer to all substrates prior to application. ----

Metals FL-10 Primer Rubber FL-20 Primer Wood FL-20 Primer Fiberglass FL-20 Primer Concrete 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 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.

### ADDITIONAL 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 Resistance:

Chemical resistance is calculated with a 7 day, room temp. cure (30 days immersion) @ 75°F)

1,1,1-Trichloroethane	Poor
Aluminum Sulfate 10%	Very good
Cutting Oil	Fair
Gasoline (Unleaded)	Poor
Hydrochloric 10%	Very good
Hydrochloric 36%	Very good
Isopropanol	Poor
Methyl Ethyl Ketone	Poor

Phosphoric 10%	Very good
Potassium Hydroxide 40%	Very good
Sodium Hydroxide 50%	Very good
Sodium Hypochlorite	Very good
Xylene	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. 15260 10 lb.

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