

TESTS CONDUCTED

Tensile Strength (Urethanes) ASTM D 412

Dielectric Strength, volts/mil ASTM D 149

Cured Hardness Shore D ASTM D 2240

Cure Shrinkage ASTM D 2566

Tear Resistance ASTM D 624

Maximum Elongation ASTM D 412



Flexane® 80 Putty

Description: Trowelable urethane for repairing and lining process equipment exposed to wear, impact, abrasion, vibration, and

expansion/contraction.

Intended Use: Repair and rebuild conveyor belts

Line process equipment to dampen noise

Line concrete control joints.

Cast flexible molds, fixtures, and parts

Pot and encapsulate

Product Trowels on smoothly

features: Cures to tough, medium-hard rubber (Shore 87A)

Limitations: Non

initations.

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** Coverage/Ib 94 sq.in./lb. @ 1/4" **Cured Hardness** 87A **Cured Shrinkage** 0.0014 in./in. **Demolding Time** 10 hrs. **Dielectric Strength** 350 volts/mils **Functional Cure** 12 hours **Maximum Elongation** 300%

Maximum Operating TemperatureDry: 180°F; Wet 120°FMix Ratio72 resin:28curing agent / wt.

Mixed Viscosity Putty
Percent Solids by Volume 100

Pot Life 20 min. @ 75°F Specific Volume 23.5 in.(3)/lb.

Taber Abrasion (H-18, dry) 0.238 cc (1000g,1000 revs)

Tear Resistance 300 pli
Tensile Strength 1,700 psi

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 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:

Surface

Preparation:

---- To ensure proper cure speeds and hardness, mix Flexane at a temperature between 65°F-85°F. ----

FOR 1 LB. UNITS

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. NOTE: Flexane putties will thicken rapidly during these first two minutes of mixing, but this DOES NOT mean that the polymer is curing.

3. Transfer the mixed material to the plastic container (included in kit).

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

5. Continue to mix until a uniform, streak-free consistency is obtained.

FOR 4 LB. UNITS

Use a propeller-type Jiffy Mixer Model ES on an electric drill.

Mix until color is uniform and consistent (approx 4-6 min.), while continuously scraping material away from sides and bottom of container.

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

Flex-Add Flexibilizer is used with Flexane 80 Liquid to produce a urethane with a durometer below 80A. This allows for custom mixing of urethanes for specific applications requirements. The chart below displays various Flex-Add amounts used with 1 lb. of Flexane and the resulting durometers. (See 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, 70 °F.

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 safety data sheet (SDS) prior to using this product.

For technical assistance, please call 1-855-489-7262

FOR INDUSTRIAL USE ONLY

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.

Disclaimer:

All information on this data sheet is based on laboratory testing and is not intended for design purposes. ITW Performance Polymers makes no representations or warranties of any kind concerning this data.

Order Information:

15820 1 lb. kit 15850 4 lb.