

Technical Data Sheet

Version 3. 09/2023

Flexane[®] 80 Putty

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Description:	Trowelable urethane for repairing and lining process equipment exposed to wear, impact, abrasion, vibration, and expansion/contraction.			
Intended Use:	Industrial 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.			
Features:	Trowels on smoothly, Cures to tough, medium-hard rubber (Shore 87A)			
Limitations:	Suitability of product is determined by the end user for their application and process.			
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 (24°C) Cured Shrinkage Dielectric Strength Hardness Maximum Elongation Maximum Operating Temperature Percent Solids by Volume Taber Abrasion (H-18, dry) Tear Resistance Tensile Strength	Typical Values 0.0014 in/in (cm/cm) 350 volts/mil (13.78 KV/mm) 87 Shore A 300% Dry: 180°F (82°C); Wet 120°F (49°C) 100 0.238 cm3 (1000g,1000 revs) 300 pli (53 N/mm) 1,700 psi (12 MPa)	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	
	Uncured Properties @ 72°F (23°C) Color Coverage (1/4" / 6.35mm) Demolding Time Functional Cure Mix Ratio Mixed Viscosity Pot Life Specific Volume	Black 94 in2/lb (1337 cm2/Kg) 10 hrs. 12 hours 72 resin : 28 curing agent by weight Putty 20 min. @ 75°F (24°C) 23.5 in3/lb (0.849 cm3/g)		
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 (18-29°C)			
	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	FOR MAXIMUM ADHESION, apply a suitable Devcon primer to all substrates prior to application			
Instructions:	MetalsFL-10 PrimerRubberFL-20 PrimerWoodFL-20 PrimerFiberglassFL-20 PrimerConcreteFL-20 PrimerRigid PlasticsFL-20 Primer (2 coats)			

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	 1 – Using a short tight nap utility applicator Brush, apply a thin coat of Flexane 80 Putty, to help wet the surface and to fill in difficult to reach voids and gaps. 2 – Spread required amount of the putty over the substrate with a spatula (stainless steel spreader) or a similar tool. 3 - Press the material firmly into all cracks and voids to ensure maximum surface contact while avoiding to entrapping air. 4 - Allow the product to cure Ten (10) hours before returning equipment to light service. The repair may then be finished to a desired profile using a 24 or 36 grit sanding disc. Do not overheat the work surface. Cure to 100% capacity takes seven (7) days @ 70°F (25°C). 		
	ADDITIONAL INFORMATION Flex-Add Flexibilizer is used with Flexane 80 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. 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°C)1,1,1-TrichloroethanePoorAluminum Sulfate 10%Very goodCutting OilFairGasoline (Unleaded)PoorHydrochloric 10%Very goodHydrochloric 36%Very goodIvgropanolPoorMethyl 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 Size 15800 1 lb. (0.45 Kg) kit 15810 10 lb. (4.5 Kg)		
Contacts:	www.itwpp.comITW Performance Polymers (EMEA)ITW Performance Polymers (US)Bay 150, Shannon Industrial Estate30 Endicott StreetShannon, County Clare, Ireland V14 DF82Danvers, MA 01923 USATEL: +353 61 771 500TEL: 855 489 7262FAX: +353 61 471 285FAX: 978 774 0516Email: customerservice.shannon@itwpp.comEmail: info@itwpp.com		
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