

Description:	High-tech, epoxy compound for quickly repairing processing equipment and returning to service in as					
Intended Use:	Repair large cracks in large coal fuel lines; protect pipe elbows, exhauster fans and housings; repair c					
Features:	Bonds to wet surfaces, Excellent adhesion to metal, ceramic, and concrete, Reinforced with two bead					
Limitations:	Suitability of product is determined by the end user for their application and process.					
Typical Bhysical	Technical data should be considered representative or typical only and should not be used for specific					
Physical Properties:	Cured 7 Days @ 75°F (24°C) Adhesive Lap Shear (GBS) Tensile Strength Compressive Strength Dielectric Strength Flexural Strength Service Temperature Shore Hardness Coeff. of Thermal Expansion (x10-6) Cured Shrinkage Uncured Properties @ 72°F (23°C) Color Working Time Functional Cure Full Cure Recoat Time Mix Ratio by Volume Mix Ratio by Vol. Specific Gravity Specific Volume Coverage (1/4" / 6.35mm)	Typical Values 1,450 psi (10.0 MPa) 4,300 psi (29.7 MPa) 11,000 psi (76 MPa) 41 volts/mil (1.6 kV/mm) 7,140 psi (49.2 MPa) Wet, 140°F (60°C) Dry, 300°F(149°C) 82 Shore D 34 in/in°F (61.2 mm/mm°C) 0.0008 in/in (cm/cm)	Standard Tes Adhesive Tens Compressive S Dielectric Stre Flexural Streny Cured Hardne Coef. of Thern Cure Shrinkag			
Surface Preparation:	 Thoroughly clean the surface with Devcon® Cleaner Blend 300 to remove all oil, grease and dirt. Grit blast surface area with 8-40 mesh grit, or grind with a coarse wheel or abrasive disc pad, to cre increased surface area for better adhesion (Caution: An abrasive disc pad can only be used provided Desired profile is 3-5mil, including defined edges (do not "feather-edge" epoxy). Note: For metals exposed to sea water or other salt solution, grit-blast and high-pressure-water-blast t overnight to allow any salts in the metal to "sweat" to the surface. Repeat blasting to "sweat out" all sc chloride contamination test to determine soluble salt content (should be no more than 40ppm). Clean surface again with Devcon® Cleaner Blend 300 to remove all traces of oil, grease, dust or ot substances from the grit blasting. Repair surface as soon as possible to eliminate any changes or surface contaminants. WORKING CONDITIONS: Ideal application temperature is 55 to 90°F (12-32°C). In cold working concarea to100-110°F (38-43C) prior to applying epoxy and maintain at this temperature during product cu contamination or solvents, as well as to achieve maximum performance properties. 					
Mixing Instructions:						
		Place resin and hardener on a flat, disposa a trowel or wide-blade tool to mix the mate				

	LARGE SIZES: (25 lb., 30 lb., 50 lb. buckets): Use a T-shaped mixing paddle or a propeller-type Jiffy Model ES on an electric drill. Thoroughly fold putty by vigorously moving paddle/propeller up and down homogenous mix of resin and hardener is attained.					
Application Instructions:	ADDITIONAL SURFACE PREPARATION INFORMATION: If grit blasting is not possible, and expandable metal cannot be used, apply Devcon Brushable Cerami mils (0.28-0.46 mm) to prime the metal surface. Allow to cure for approximately 2 hours, or until a fing the primed surface. Immediately apply Combo Wear FC to the surface. DO NOT let the "prime coat" f before applying Combo Wear FC.					
	Spread mixed material on repair area at a minimum thickness of ¼". Work firmly into substrate to ens maximum surface contact. Combo Wear FC fully cures in 16 hours, at which time it can be machined, or painted.					
	FOR BRIDGING LARGE GAPS OR HOLES Place fiberglass sheet, expanded metal, or mechanical fasteners between repair area and Combo We prior to application.					
	FOR VERTICAL SURFACE APPLICATIONS Combo Wear FC can be troweled up to 3/4" (19mm) thick without sagging.					
	FOR MAXIMUM PHYSICAL PROPERTIES Cure at room temperature for 2.5 hours, then heat cure for 4 hours @ 200°F (93°C)					
Storage:	FOR \pm 70°F (21°C) APPLICATIONS Applying epoxy at temperatures below 70°F (21°C) lengthens functional cure and pot lifetimes. Conve at higher temperatures shortens cure time and potlife. Store at room temperature, 70 °F (21°C).					
Compliances:	None					
Chemical		lated with a 7 day room to	emp. cure (30 days immersion)	@ 75°F (24°C)		
Resistance:	1,1,1-Trichloroethane	Very good	Nitric Acid 10%	Fair		
	Acetic (Dilute) 10%	Poor	Phosphoric 10%	Fair		
	Benzene	Very good	Potassium Hydroxide 40%	Excellent		
	Gasoline (Unleaded)	Fair	Sodium Hydroxide 50%	Excellent		
	Hydrochloric 10%	Very good	Sodium Hypochlorite	Very good		
	Methanol	Poor	Sulfuric 10%	Very good		
	Methyl Ethyl Keton	Very good	Toluene	Excellent		
	Methylene Chloride	Poor	Trisodium Phosphate	Very good		
Precations:	FOR INDUSTRIAL USE ONLY: Please refer to the appropriate Saftey Data Sheet prior to using this p					
Warranty:	ITW Performance Polymers will replace any material found to be defective. Because the storage, han beyond our control, we can accept no liability for the results obtained.					
Order Information:	Item No.Package Size1427750ml Cartg.					
Contacts:	www.itwpp.com ITW Performance Polymers Bay 150, Shannon Industria Shannon, County Clare, Irel TEL: +353 61 771 500 FAX: +353 61 471 285 Email: customerservice.sha	l Estate and V14 DF82	ITW Performance Polymers (US) 30 Endicott Street Danvers, MA 01923 USA TEL: 855 489 7262 FAX: 978 774 0516 Email: info@itwpp.com			
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	Exclusion of Warranties : As to the herein described materials and test results, there are no warranti extend beyond the description on the face hereof. ITW PP makes no other warranties, express or imp including, but not limited to, any implied warranty of merchantability or fitness for a particular purpose. use of the herein described involves many variables in methods of application, design, handling and/o user, in accepting and using these materials, assumes all responsibility for the end result. ITW PP shi otherwise be liable for loss of damages, whether direct, indirect, special, incidental, or consequential, the legal theory asserted, including negligence, warranty, or strict liability.					

Technical Data Sheet

Version 3. 04/2023

little as 1.5 hours

hippers, bins, and hoppers

sizes and silicon carbide

ation purposes.

ts sile Shear ASTM D 1002

Strength ASTM D 695 ngth ASTM D 149 gth ASTM D 790

ss Shore D ASTM D 2240 nal Expansion ASTM D 696 le ASTM D 2566

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