



Ultra Quartz™

Description:	A heavy-duty, premium Concrete & Masonry floor patching system. Primer/Sealer systems are sold separately.		
Intended Use:	Industrial Use: Intended for repairing concrete or masonry structures, tanks or floors in chemical environments where heavy concentrations of acids, alkalis, and hydrocarbons destroying the floor. Ideal for rebuilding floors around acid dip tanks, pump pads, and secondary containment areas		
Features:	Trowelable to a non-porous finish 9000 psi (62 MPa) compressive strength Superior adhesion to cured concrete Non-sag formulation Outstanding resistance to acids, alkalis, water, oils, solvents, chemicals		
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.		
Properties:	Cured 7 Days @ 75°F (24°C)	Typical Values	Standard Tests
	Compressive Strength Temperature Resistance	9,000 psi (62 MPa) Wet: 120°F (49°C) ; Dry: 250°F (121°C)	Compressive Strength ASTM D 695 Shore D ASTM D 2240
	Uncured		
	Application Temperature	60° - 90°F (16° - 32°C)	
	Color	Light Sand	
	Coverage (1/4" / 6.35mm)	0.371 ft2/lb (760.7 cm2/Kg)	
	Functional Cure	16 hrs @ 75°F (24°C)	
	Hardness	95 Shore D	
	Mix Ratio	2 resin :1 hardener by weight	
	Mix Ratio Aggregate:Liquid	10:1 by weight	
	Mixed Viscosity	Putty - Paste	
	Pot Life @ 75F	60 min.	
	Maximum Recoat Time @ 75°F (24°C)	6-8 hrs	
	Solids by Volume	100	
	Specific Volume	0.498 cm3/g	
Surface Preparation:	Concrete & Masonry: Begin with a sound, clean, dry and roughened, oil-free application surface, as it is essential to the success and performance of this product. For proper surface preparation, refer to Concrete or Masonry Surface Preparation as detailed by: SSP/NACE SSPC-SP13/NACE 6 , or ICRI No. 310.2R, CSP 3-5 . for proper surface preparation guidelines. As seen in the Application section below, a primer sealer is required . Atmospheric: SSPC-SP13/NACE 6, or ICRI No. 310.2R, CSP 3-5 Immersion: SSPC-SP13/NACE 6-4.3.1 or 4.3.2 or ICRI No. 310.2R, CSP 3-5		
Precautions:	NEW POURED CONCRETE, allow to fully cure (28 days @ 70°F (21°C)) prior to application. Remove any curing membrane by sanding or etching with a strong detergent. Remove any laitance if present. OLD CONCRETE, thoroughly clean surface with a grease-cutting detergent to remove grease and oils, and remove any loose or unsound concrete by chipping, scarifying, shotblasting, sanding, or grinding. Proceed as for new poured concrete. PREVIOUSLY COATED CONCRETE, applications should be considered short term because the coating system is only as strong as its weakest component. Remove any peeling or degraded paint by sanding or using a paint stripper. For intact paint, thoroughly clean the surface with a strong detergent, then lightly sand to remove any gloss. Treat any areas worn down to the original concrete as bare concrete. Metal: If metal is also being coated, Primer is required . It is recommended to use a wire brush or sandpaper to remover rust and scale from the surface to be protected. Surfaces may be shot blasted or abraded using a wire wheel for best results. All dirt, grease and old paint should be removed. A clean dry surface is essential for the best results. A metal primer is required and is sold separately. See SSPC-SP1 or SSPC-SP10/Nace2 for metal cleaning. Optimal profile 2 mils / 50 microns		
	Atmospheric: SSPC-SP6/NACE 3, ISO 8501-1 Sa2 ,2 mil (50 micron) profile Immersion: SSPC-SP10/NACE 2, ISO 8501-1 SA2.5, 2-3 mil (50-75 micron) profile		

Mixing Instructions:	---- Adequate ventilation is necessary when mixing this product.----																	
	- Attach a propeller-type Jiffy Mixer Model ES to an electric drill. - Shake Resin and hardener well before use. - Add resin to pail and mix thoroughly until color is uniform. - Add hardener into resin pail. - Mix for about two (2) minutes, while continuously scraping material away from sides and bottom of container. - Slowly and evenly, pour aggregate into liquid mixture and mix until a uniform texture is obtained.																	
Application Instructions:	Apply the required precoat primer: Sealer 100 (sku# 12540 EMEA) or Concrete Sealer (sku# 12560 Americas) to concrete/cement prepared Surface. See Technical Data Sheets on Sealer 100 and Concrete Sealer for specific product details.																	
	APPLICATION: Spread Ultra Quartz over application area with a trowel. Spread back and forth to create top layer. To produce a smooth finish, trowel again once product has thickened (approx. 20 minutes into pot life).																	
	NOTES: -For a truly smooth finish, dip trowel in water before each application to lessen build-up on trowel and break surface tension of epoxy. -DO NOT pour water onto uncured epoxy.																	
Storage:	Store at room temperature, 70 °F (21°C)																	
Compliances:	Approved in the U.S. for use in meat and poultry processing plants Accepted by Canadian Department of Agriculture Food Safety Service																	
Chemical Resistance:	Chemical resistance is calculated with a 7 day, room temp. cure (30 days immersion) @ 75°F (24°C)																	
	<table><tr><td>Ammonia</td><td>Excellent</td></tr><tr><td>Chlorinated Solvent</td><td>Excellent</td></tr><tr><td>Hydrochloric 10%</td><td>Excellent</td></tr><tr><td>Kerosene</td><td>Excellent</td></tr><tr><td>Methanol</td><td>Very good</td></tr><tr><td>Sodium Hydroxide 10%</td><td>Excellent</td></tr><tr><td>Sulfuric 10%</td><td>Excellent</td></tr><tr><td>Toluene</td><td>Excellent</td></tr></table>		Ammonia	Excellent	Chlorinated Solvent	Excellent	Hydrochloric 10%	Excellent	Kerosene	Excellent	Methanol	Very good	Sodium Hydroxide 10%	Excellent	Sulfuric 10%	Excellent	Toluene	Excellent
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Precautions:	FOR INDUSTRIAL USE ONLY: Please refer to the appropriate <u>Safety Data Sheet</u> 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:	<table><tr><td>Item No.</td><td>Package Size</td></tr><tr><td>13550</td><td>35 lb. (15.9 Kg)</td></tr></table>	Item No.	Package Size	13550	35 lb. (15.9 Kg)													
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Contacts:	<table><tr><td>www.itwpp.com ITW Performance Polymers (EMEA) Bay 150, Shannon Industrial Estate Shannon, County Clare, Ireland V14 DF82 TEL: +353 61 771 500 FAX: +353 61 471 285 Email: customerservice.shannon@itwpp.com</td><td>ITW Performance Polymers (US) 30 Endicott Street Danvers, MA 01923 USA TEL: +1-855-489-7262 FAX: +1-978-774-0516 Email: info@itwpp.com</td></tr></table>		www.itwpp.com ITW Performance Polymers (EMEA) Bay 150, Shannon Industrial Estate Shannon, County Clare, Ireland V14 DF82 TEL: +353 61 771 500 FAX: +353 61 471 285 Email: customerservice.shannon@itwpp.com	ITW Performance Polymers (US) 30 Endicott Street Danvers, MA 01923 USA TEL: +1-855-489-7262 FAX: +1-978-774-0516 Email: info@itwpp.com														
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