Technical Data Sheet
Version 6. 02/2025

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.

Cured 7 Days @ 75°F (24°C)	Typical Values	Standard Tests
Compressive Strength	9,000 psi (62 MPa)	Compressive Strength ASTM D 695
Temperature Resistance	Wet: 120°F (49°C) ; Dry: 250°F (121°C)	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)

Ammonia	Excellent
Chlorinated Solvent	Excellent
Hydrochloric 10%	Excellent
Kerosene	Excellent
Methanol	Very good
Sodium Hydroxide 10%	Excellent
Sulfuric 10%	Excellent
Toluene	Excellent

Precautions:

FOR INDUSTRIAL USE ONLY: Please refer to the appropriate **S**afety **D**ata **S**heet 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**
13550	35 lb. (15.9 Kg)

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Disclaimer:

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