



## BIGA GROUP

SPECIAL WELDING, SHIP / OFF SHORE / INDUSTRY SERVICE  
ENGINEERING, CONSULTING AND SURVEY  
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### Technical Data Sheet

1/25/2011

## Ultra Quartz™

<b>Description:</b>	A heavy-duty, premium floor patching system (includes primer)
<b>Intended Use:</b>	Used to repair concrete in chemical environments where heavy concentrations of acids, alkalis, and hydrocarbons are destroying the floor. Ideal for rebuilding floors around acid dip tanks, pump pads, and secondary containment areas.
<b>Product features:</b>	<b>Trowelable to a non-porous finish</b> <b>9000 psi compression strength</b> <b>Superior adhesion to cured concrete</b> <b>Non-sag formulation</b> <b>Outstanding resistance to acids, alkalis, water, oils, solvents, chemicals</b>
<b>Limitations:</b>	None

**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

Application Coverage per Unit	13 sq.ft. @ 1/4" thickness
Application Temperature	60° - 90°F
Color	Light Sand
Compressive Strength	9,000 psi
Cure Hardness	95D
Functional Cure	16 hrs. @ 75°F
Minimum Recoat Time @ 75F	6 - 8 hrs.
Mix Ratio	2 resin :1 hardener (by wt.)
Mixed Viscosity	Putty - Paste
Packaging	35 lb. Unit
Pot Life @ 75F	60 min.
Solids by Volume	100
Temperature Resistance	Wet: 120°F; Dry: 250°F

#### Uncured

Aggregate:Liquid	10:1 by weight
Primer - Resin:Hardener	3:1 by weight

**Surface Preparation:** For METAL SURFACES, use a wire brush or sandpaper to remove 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. All clean dry surface is essential for the best results.

Begin with a sound, clean, dry and roughened, oil-free application surface, as it is essential to the success and performance of this product.

Spot test surface by mixing a small quantity of the resin and hardener without the silica filler. Apply the compound to a small, clean test area. Old paint may wrinkle or lift. If it DOES NOT, wait five (5) days and test the bond strength by scraping surface with a sharp instrument. A pressure-sensitive tape test can also be used as follows: cut an "X" into surface and place tape firmly over the cut. Remove the tape with a hard, fast pull. If the coating fails either test, proceed with instructions for previously coated concrete (see below).

For NEW POURED CONCRETE, allow to fully cure (28 days @ 70°F) prior to application. Remove any curing membrane by sanding or etching with a strong detergent.

For 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.

For 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.

**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:****PRIMING:**

Mix primer resin and hardener in a cup for approximately two minutes. Brush primer onto surface. Within 1 hour, apply Ultra Quartz to primed area. Maximum re-coat time is 3 hours. If re-coat time is exceeded, gently roughen primed area. Primer has a 30-minute pot life.

**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.

**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*

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

**Precautions:**

Please refer to the appropriate material safety data sheet (MSDS) prior to using this product.

**For technical assistance, please call 1-800-933-8266**

**FOR INDUSTRIAL USE ONLY**

**Warranty:**

Devcon 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 Devcon makes no representations or warranties of any kind concerning this data.  
For product information visit [www.bigagroup.com](http://www.bigagroup.com) / [www.devcon.com](http://www.devcon.com) alternatively for technical assistance please call +385 52 880 882 or send an e-mail to [biga@biga.hr](mailto:biga@biga.hr).

**Order Information:**

**13550    35 lb.**