



TECHNICAL DATA SHEET – ULTRA QUARTZ™

Revised: 11/2018

PRODUCT INFORMATION

STOCK NO.: 13550

PACKAGE SIZE: 15.9kg

DESCRIPTION

A heavy-duty and highly chemical-resistant premium concrete patching system with primer included. Bonds to concrete, brick, masonry, metal and wood surfaces.

RECOMMENDED APPLICATIONS

- Ideal for patching concrete, brick, masonry and floors in areas susceptible to chemical attack from acids, alkalis and hydrocarbons.
- Can be used as a coating for secondary containment and bunding areas
- Authorised by USDA for use in generally inspected meat and poultry plants.

PRODUCT DATA

TYPICAL PHYSICAL PROPERTIES

COLOUR	Sandy yellow
MIX RATIO BY WEIGHT	2 Resin: 1 Hardener: 30 crystals
% SOLIDS BY VOLUME	100
POT LIFE AT 25°C (MINUTES)	60
SPECIFIC VOLUME (CC/KG)	498
TEMPERATURE RESISTANCE	Dry 121°C Wet 49°C
COVERAGE (M ² /UNIT)	1.53 @ 5mm thick
CURED HARDNESS (SHORE D)	95
COMPRESSIVE STRENGTH (MPA)	62
THICKNESS PER COAT (MM)	As required
FUNCTIONAL CURE TIME (HOURS)	16
RECOAT TIME (HOURS)	6-8
MIXED VISCOSITY (CPS)	Putty-Paste
MIX RATIO BY WEIGHT (SURFACE PRIMER)	2.6 resin:1 hardener
SURFACE PRIMER POT LIFE (MINUTES)	30

**CHEMICAL RESISTANCE - 7 DAYS ROOM TEMPERATURE CURE (30 DAYS)
- TESTING CARRIED OUT 30 DAYS IMMERSION AT 21°C**

	POOR	FAIR	VERY GOOD	EXCELLENT
AMMONIA				•
METHANOL			•	
KEROSENE				•
HYDROCHLORIC ACID 10%				•
METHYLENE CHLORIDE				•
SODIUM HYDROXIDE 10%				•
SULPHURIC ACID 10%				•
TOLUENE				•

Excellent = +/- 1% weight change, Very Good = +/- 1-10% weight change, Fair = +/- 10-20% weight change, Poor = > 20% weight change

APPLICATION INFORMATION

SURFACE PREPARATION

Proper surface preparation is essential to the success and performance of Devcon Ultra Quartz. In all cases, the application surface must be sound, rough, clean, oil-free and dry.

New poured concrete should be allowed to cure fully (28 days @ 21°C) prior to application. If a curing membrane was used, it must be removed, by sanding or etching with a strong detergent. If no curing membrane was used, the surface should be etched using an environmentally safe acid etch.

Old concrete application procedures are the same as for new concrete, except it is essential to thoroughly clean the surface. Use a suitable detergent to remove grease and oils. All loose or unsound concrete should be removed by suitable mechanical means such as scarifying, abrasive blasting, grinding or jet washing.

Previously coated concrete applications should be considered short term because the coating system is only as strong as the weakest component in the system. Paint that is peeling or degrading in any way should be removed completely by sanding or using paint stripper. If the paint is intact, the surface should be cleaned thoroughly with a strong detergent and sanded lightly to remove the gloss. Any areas where the finish has worn down to the original concrete should be treated as bare concrete.

To ensure that Ultra Quartz will bond to the old surface, a spot test should be made. Mix a small quantity of the epoxy resin and hardener and apply the compound (without aggregate) to a small, clean test area. The old paint may wrinkle or lift off. If it doesn't, wait 5 days and test the bond strength of the application by scraping with a sharp instrument, or use the pressure-sensitive tape test as follows: cut an 'X' into the surface, place the tape firmly over the cut and remove the tape with a hard, fast pull. If the coating fails either test, remove the old finish by sanding or by using a paint stripper.

MIXING

Shake resin and hardener well before use. Add the resin to the pail. Pour hardener into the resin pail, and mix for about two minutes, being careful to mix the material from

the bottom and sides of the container. Then, slowly and evenly, mix the crystals into the liquid using a power tool until a uniform texture is obtained. **Ultra Quartz can also be mixed by hand on a mortar board or a clean, flat mixing surface, once the crystals have been added.**

APPLICATION

Primer application:

Mix primer resin and hardener for approximately two minutes. Brush primer onto surface. Within 1 hour, mix and apply Ultra Quartz to the primed area. Maximum re-coat time is 3 hours. If this is exceeded, gently roughen primed area.

Ultraquartz application:

Spread Ultra Quartz over application area with a trowel. Spread back and forth to create a top layer. For a truly smooth finish, dip trowel in water before each application to lessen the build-up on the trowel and break the surface tension of the epoxy. **DO NOT** pour water onto uncured epoxy.

SHELF LIFE & STORAGE

A shelf life of 3 years from date of manufacture can be expected when stored at room temperature (22°C) in their original containers.

PRECAUTION

For complete safety and handling information, please refer to the appropriate Material Safety Data Sheets prior to using this product.

WARRANTY

ITW Performance Polymers will replace any material found to be defective. As 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 Performance Polymers makes no representations or warranties of any kind concerning this data.

For product information visit www.devconeurope.com alternatively for technical assistance please call +353 61 771 500.

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