

CONCRETECH

UltraBond 680

PRODUCT DESCRIPTION

UltraBond 680 is a premium, versatile, two component, 100% solids, VOC compliant, self-leveling epoxy. UltraBond 680 combines chemical resistance, toughness and tenacious bond strength with a bright, aesthetically pleasing finish. The product is approved by the Hygienic Environment, Food Inspection Branch of the Federal Government for use in Registered Environments.

USES

UltraBond 680 is very resistant to a wide range of chemicals and performs extremely well under abrasive and high impact conditions. UltraBond 680 adheres tenaciously to both concrete and steel. Spectacular results can be obtained where dramatic visual impact is desired: showrooms, airport hangers, factories, pulp mills, chemical plants, agriculture and food preparation, containment areas.

PACKAGING

UltraBond 680 is available in virtually any color.
UltraBond 680 Part A is 7.56 L. / 2 Gal.
UltraBond 680 Part B is 3.78 L. / 1 Gal.
UltraBond 680 Part A+B 11.34 L. / 3 Gal. Kits.

LIMITATIONS

Concrete must be free of contaminants, dry and structurally sound. Preferred method is by shot blasting. For other methods please contact Concretech Technical Services. In severe service and retrofit applications, prime floor with UltraBond 400. Chase non-moving cracks and fill with Epoxy repair. For larger spalls produce a blend of UltraBond 680 and specific grades of silica. A very limited number of cementitious grouts are suitable on larger patches. Contact Concretech Technical Services for details and technical bulletins on any of the above products. Steel should be clean to white metal, but in most cases a commercial blast is adequate. The minimum profile expected on steel is 1 mil.

INSTALLATION INSTRUCTIONS

Pre-mix Part A, taking care to scrape the sides of pail with a paint stick. Then add Part B and mix for 2 min. Mix only amount that can be used within the 30 min pot life and maintain the 2A:1B ratio by volume. No induction time necessary. Do not add thinners. Do not apply UltraBond 680 on damp surfaces (prime with UltraBond 400 first) or at temperatures below 5°C (40°F). The product does not blush and can be re-coated anytime. A light sanding is required if floor has been in service. If floor is primed with UltraBond 400 or with thicker overlays, out-gassing is not a problem. UltraBond 680 flows out very well. With thin overlays and applicators unfamiliar with UltraBond 680, apply a thin prime coat and allow out gassing to dissipate: then recoat. At 20°C (68°F), UltraBond 680 can be re-coated and/or ready for foot traffic overnight. UltraBond 680 is ideal for high build, vertical and anti skid applications.

STORAGE

Shelf life of one year from date of manufacture in protected area at 5-40°C (40-104°F).

PROPERTIES

Analysis for A-B Mixture

Non Volatile (Wt)	98.7 %
Non Volatile (Vol)	98.5 %
Specific Gravity	1.258

Bond Strength to Damp Concrete, psi

Cure at 23 C	604
Cure at 4.4 C	542
Abrasion Resistance (CS-10/1000g)	39 mg loss

Physical Properties (7 day cure @ 25°C (70°F))

Compressive Strength, psi	0
Compressive Modulus, x1000 psi	340
Tensile Strength, psi	10,100
Tensile Modulus, x1000 psi	449
Elongation, %	4.2
Flexural Strength, psi	15,900
Flexural Modulus, x1000psi	545
Tg C	57

Chemical Resistance (3 hour spot tests, covered)

Skydrol 500-B	E
Xylene	VG
10% Acetic Acid	G
2% Nitric Acid	VG
10% HCl	E
Bleach	E
Methanol	P
10% Lactic Acid	E
70% Sulfuric Acid	E
98% Sulfuric Acid	P

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CONCRETECH

Ultrabond 680
Pg. 2

50% Sodium Hydroxide	E
10% Ammonium Hyd.	VG
Water	E
Ethanol	F
Butyl Cellosolve	G

E=Excellent, VG=Very Good, G=Good, F=Fair, P=Poor

Square Footage 160 SqFt. per 3.78 L. at 10 mils thickness.

SAFETY PRECAUTIONS

Handling: Prolonged contact of component A with skin may cause irritation. Vapor and spray mist are harmful. Use appropriate respirator and protect skin and eyes from contact when using this product. Component B is an irritant. Contact may cause severe burns. Avoid breathing vapors. Avoid eye contact. Wear protective clothing, vapor mask & eye protection. Keep away from children. See MSDS for additional information.

TECHNICAL SERVICES

Complete technical information is available from Concretech Inc. and its authorized applicators and distributors. In house laboratory testing is available for specialty applications. Technical services available in North America call toll free 1.888.503.6780

Concretech Inc.'s sole warranty is that our products have been manufactured to meet with our written specifications. The information herein is general information to assist our customers in determining whether our products are suitable for their applications. Our products are intended for sale to commercial and industrial customers. We require customers to inspect and test our products before use and to satisfy themselves as to contents, suitability and applications. Nothing herein shall constitute any other warranty, express or implied, including any warranty of merchantability or fitness for a particular purpose, nor is any protection from any law or patent inferred. All patent and trademark rights are reserved. The exclusive remedy for all proven claims is replacement of our materials and in no event shall we be liable for incidental or consequential damages.

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