

DESCRIPTION Ultrabond 2100 is a high strength 2-component epoxy adhesive product for bonding fresh/plastic concrete to hardened concrete. Its bonding and sealing capabilities for interior and exterior slabs are exceptional. It can also be used for several types of repair projects and can be mixed with aggregate as an epoxy mortar spall repair. Its medium viscosity is perfect for medium width horizontal cracks and can be used in temperatures between 40-100°F.

PROPERTIES Gel time: 37 minutes @ 75°F
Medium Viscosity 3,600 cp

COLOR	
Part A	White
Part B	Black/dark gray
Mixed	Concrete Gray
Ratio	1:1

GENERAL USES and APPLICATIONS

- ❖ Bonding fresh to hardened or hardened to hardened concrete
- ❖ Mortar Repair Material (when mixed with dry silica sand) or self leveling spall and patching material.
- ❖ Primer for industrial coatings
- ❖ Gravity feed crack repair for medium to large cracks.

ADVANTAGES and FEATURES

- ❖ Medium viscosity, pourable and self-leveling. Ideal as a bonding agent for many substrates
- ❖ Moisture insensitive. Can be used in damp environments
- ❖ 100% epoxy, solvent free system with low VOC content.

PACKAGING

Bulk Only	Part #'s
Bulk Unit Gallon (102 fl oz)	BUG-2100
2 Gallon kit	B2G-2100
10 Gallon kit	B10GM-2100
100 Gallon kit	B100G-2100

AVAILABILITY ATC Ultrabond epoxy is available through select distributors who can provide you with all your construction needs. Please contact ATC at (800) 892-1880 for a distributor near you.

WEBSITE www.ATC.ws

SHELF LIFE / STORAGE 24 month shelf life when stored in unopened containers in dry conditions.
Store between 55°F and 80°F.

Independent ASTM C881-99 Technical Data				
Properties	ASTM	48°F	65°F	75°F
Viscosity mixed (centipoise)				3,600
Gel Time (60 gm sample)	minutes	n/a	n/a	37
Tack Free Time 30mil thin film		--	--	3 hrs 40 minutes
Initial Cure Time 30 mil thin film		--	--	6 hrs 20 minutes
Pot Life (bulk only) 1 gallon	minutes	--	--	45
Compressive Strength – psi 7 days	D695	10,030	10,100	--
Compressive Modulus – psi	D695	200,420	201,190	--
Tensile Strength psi 7 days	D638	7,080	7,210	--
Tensile Elongation - % 7 days	D638	1.4 %	1.9%	--
Bond Strength – psi 2 day	C882	--	--	1,130
Bond Strength – psi 14 day	C882	--	--	1,690
Heat Deflection Temperature °F	D648	--	--	135°F
Water Absorption - %	D570	--	--	0.42
Linear Coefficient of Shrinkage cm/cm	D2566	--	--	0.003
Volatile Organic Compounds VOC		--	--	51.0

STANDARDS and APPROVALS

**ASTM C881 Type I, II, IV & V
Grade 2, Class B & C
AASHTO M235**

D.O.T. Approvals:

Alabama*Florida*Georgia*Indiana*Idaho
Iowa*Kentucky*Massachusetts*Nebraska
Pennsylvania*Tennessee*Texas*Utah

Canada, Ontario MTO-DSM

LEED: Certificate is available upon request.



Manufactured In The U.S.A.  by Adhesives Technology Corp.

450 East Copans Road ■ Pompano Beach, FL 33064 ■ (800) 892-1880 ■ Fax (800) 362-3320 ■ www.atc.ws

APPLICATION TEMPERATURE Substrate and ambient air temperature between 40°F - 110°F

CONDITION PRODUCT When the work environment or substrate falls below 70°F condition the product to 70-75°F prior to use. Cold product may become too thick and product that is too warm will react much faster than normal.

COVERAGE A BUG unit (or bulk-gallon unit, 102 fl. oz.) will cover 64 sq. ft on a smooth surface.
A B2G (2 gallon kit) will cover 160 sq. ft. on a smooth surface.

CHEMICAL RESISTANCE A Chemical Resistance Chart for our Ultrabond, Miraclebond and Crackbond products is available upon request. Contact a Technical Service Representative for details.

LIMITATIONS & WARNINGS

- ❖ Do not thin with solvents, as this will prevent cure.
- ❖ Not recommended for use in overhead applications or long term sustained loads.
- ❖ It is not designed to stop seeping or flowing water. It may be applied in moist or damp environments as long as standing water is removed.

SPECIFICATION Bonding adhesive shall be a two component, 1:1 ratio, self leveling, solvent free, epoxy system supplied in pre-measured containers. The adhesive material must have a minimum gel-time of 35 minutes, a minimum tensile strength of 7,210 psi (at 65°F) and a minimum compressive strength of 10,000 psi. Epoxy must meet the requirements of ASTM C881 specification for Type I, II, IV & V, Grade 2, Class B and C. Epoxy must have a minimum heat deflection temperature of 135° F (57°C) per ASTM D648. Adhesive shall be Ultrabond 2100 manufactured by ATC, Pompano Beach, Florida.

MPII-MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS For complete Installation Instructions for Ultrabond 2100 refer to our Website, www.atc.ws or call ATC for more information at 1-800-892-1880.

SURFACE PREPARATION for BONDING Old concrete must be clean and profiled or textured. New concrete must be a minimum of 28 days old. All dirt, oil, debris, wax, grease or dust must be removed. Prepare the surface mechanically using a scarifier, shotblast or other equipment that will give the surface profile needed for the application. A roughened surface is imperative to good adhesion.

CLEAN UP Clean tools and equipment with solvent such as xylene, toluene, MEK or WD-40.
Do not allow epoxy to harden on equipment.

SAFETY Please refer to the MSDS for Ultrabond 2100 published on our Website, www.atc.ws

WARRANTY Adhesives Technology Corporation (ATC) warrants to the Buyer that this product is in good quality and conforms to the manufacturer's specifications in force on the date of manufacture and when used in accordance with the Installation Instructions and when stored as directed in the technical literature. Manufacturer cannot warrant or guarantee any particular method of use, performance or application under any particular condition and Buyer is responsible for determining the suitability of intended purpose and assumes all risks therein. ATC shall not be liable for any injury, loss, cost of labor or consequential damages either directly, indirectly or incidentally, arising out of the use or misuse of any product sold by ATC or another distributor. If the product is proven to be in nonconformance, the Buyers sole remedy shall be a refund of the purchase price or replacement of product.

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