MIRACLEBOND 1450

ADHESIVES TECHNOLOGY CORP.
Concrete Solutions for Concrete Applications

TECH DATA SHEET

DESCRIPTION Miraclebond 1450 is a multipurpose, high strength, slower curing epoxy bonding and repair adhesive system. Its specially formulated non-sag system is perfect for overhead and vertical repairs.

PROPERTIES

Gel Time: 20 minutes @ 75°F
Tack FreeTime: 100 minutes for ¼" film @ 75°F
Consistency: Non Sag Paste

COLOR	
Part A	Off White
Part B	Dark Gray
Mixed	Light Gray
Mix Ratio	1 : 1

GENERAL USES and APPLICATIONS

- Bonding fresh concrete to hardened concrete
- Bonding hardened concrete to hardened concrete
- Capping Paste around ports for Crack injection sealer
- Non-sag patching material for cracks and spalls. Great for overhead and vertical repair.
- Bonds to a multitude of substrates

ADVANTAGES and FEATURES

- Ideal as a bonding agent for almost any material including metal, concrete, brick, wood, stone, block and other substrates.
- 100% solids, solvent-free system with zero VOC content
- Ceramic blend formula that has high strength and high modulus.
- Moisture insensitive system for usage on damp surfaces

PACKAGING of MB 1450

BULK only	Part #
Quart Kit	B1Q-MB1450
Gallon Kit (102 fl. oz.)	BUG-MB1450

AVAILABILITY **ATC Miraclebond products are 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 and stored 40°F--95°F**

Miraclebond 1450 Technical Data					
Properties		ASTM		77°F	
Gel time 60 gm sample @ 77°F	minutes	C881		20	
Tack Free Time @ 77°F ¼" thick	minutes		100 (w / peak exotherm 90°F)		
Cure Free Time @ 77°F ¼" thick	hours		3 hours		
Tack Free Time @ 77°F 2" thick	minutes		22 (w / peak exotherm 240°F)		
Cure Free Time @ 77°F 2x2x2" cube	minutes		30 minutes		
Compressive Strength / Modulus - psi	1 hour		6,290 / 726,000		
Compressive Strength / Modulus -psi	3 hours		7,833 / 911,500		
Compressive Strength / Modulus- psi	24 hrs		11,211 / 1,207,400		
Compressive Strength / Modulus - psi	7 day	D695	12,761 / 1,341,800		
Bond Strength – psi	2 day	C882			
Bond Strength – psi	14 day	C882			
Shore D Hardness 2x2x2 cube in 1 hr.		D2240	80		
Consistency or Viscosity		C881	Non-sag paste		
Water Absorption		C413	0.14 %		
Volatile Organic Compounds (VOC)	mixed		0 g / l		

Miraclebond can be used to replace a pool tile underwater. Apply adhesive to the dry tile and adhere to side wall or bottom surface of the pool. Hold in place for a few minutes. MB1450 is heavier than water and is not recommended for vertical crack or spall repair underwater.

LEED: Certificate is available upon request

Manufactured In The U.S.A. ***byAdhesives 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 and 100°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 faster than normal.

COVERAGE The Quart Kit yields approximately 1/3 sq ft at 1" deep fill.
BUG Unit (gallon) yields approximately 1-1/4 sq. ft at 1" depth

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

LIMITATIONS & WARNINGS

- Do not thin with solvents or water, as this will prevent cure
- Not for use in anchoring applications
- Maximum Spall repair is 2" deep

SPECIFICATION Bonding adhesive shall be a two component, 1:1 ratio, 100% solids epoxy system supplied in pre-measured containers. The adhesive material must have a minimum gel-time of 20 minutes, a minimum compressive strength of 7,800 psi after 3 hours (at 75°F.) Shelf life must be a minimum of 24 months. Adhesive shall be Miraclebond 1450 manufactured by Adhesives Technology Corp., Pompano Beach, Florida.

MPII MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS Maximum 2" Lift @ 75°F for Miraclebond 1450. Dip trowel in water prior to facilitate smooth application. For complete Installation Instructions for spall or crack repair or capping for crack injection, see MPII, Manufacturer's Printed Installation Instructions for Miraclebond 1450 on our Website, www.atc.ws or call ATC for more information at 1-800-892-1880.

SURFACE PREPARATION 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 sandblast, shotblast, or other equipment that will give the surface profile needed for the application. A roughened surface is imperative to good adhesion. See complete MPII.

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 Miraclebond 1450 published on our Website, www.atc.ws or call ATC for more information at 1-800-892-1880.

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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