



INCREDI-BOND

Technical Data Sheet

DESCRIPTION

Incredi-Bond is a multi-purpose, rapid cure, epoxy bonding and repair adhesive. Its specially formulated, non-sag property is ideal for bonding most materials together and is perfect for both overhead and vertical repairs, while still easily dispensed from most caulking guns. It has an application temperature range between 40 °F (4 °C) and 110 °F (43 °C).

PROPERTIES

Gel Time: 26 minutes @ 75°F (24°C)

Cure Time: 3 hours @ 75°F (24°C)

Consistency: Non Sag Paste

GENERAL USES & APPLICATIONS

- Ideal bonding agent for most materials including concrete, brick, wood, stone, block and other substrates
- May be used as an adhesive or filler
- Capping paste and injection port adhesive for crack injection process
- Non-sag patching material for cracks and small spalls
- Ideal for overhead and vertical repairs
- Adhering replacement tile to surface of pool underwater by applying adhesive to dry tile and holding in place until initial tack

ADVANTAGES & FEATURES

- Easily dispensable from most caulking guns
- Rapid initial 3 hour cure at room temperature
- Moisture insensitive system and may be used on damp surfaces

Incredi-Bond performance to ASTM C881-14^{1,2,3}

Property	Cure Time	ASTM Standard	Units	Sample Conditioning Temperature	
				40°F (4°C)	75°F (24°C)
Gel Time - 60 Gram Mass	--	C881	min	65	26
Tack Free Cure Time ⁴ (30 mil Thin Film)	--	D2377	hr	> 6	3
Working Time (Nozzle) ⁴	--	--	min	90	45
Peak Compressive Strength ⁴	7 day	D695	psi (MPa)	14,190 (97.8)	12,720 (87.7)
Compressive Modulus			psi (MPa)	936,400 (6,456)	698,400 (4,815)
Bond Strength Hardened-to-Hardened Concrete	2 day	C882	psi (MPa)	2,460 (17.0)	2,450 (16.9)
	14 day		psi (MPa)	2,490 (17.2)	2,910 (20.1)
Bond Strength Plastic-to-Hardened Concrete	14 day		psi (MPa)	1,780 (12.3)	
Consistency of Viscosity	--	C881	--	Non-sag	
Water Absorbtion	14 day	D570	%	0.32	
Linear Coefficient of Shrinkage	--	D2566	%	0.00015	

1) Results based on testing conducted on a representative lot(s) of product. Average results will vary according to the tolerances of the given property

2) Full cure is listed above to obtain the given properties for each product characteristic.

3) Results may vary due to environmental factors such as temperature, moisture and type of substrate.

4) Property not referenced in ASTM C881.

Product with Expiration Date after 09/25/2021

COLOR	
Part A (Resin)	White
Part B (Hardener)	Gray
Mixed	Concrete Gray
Mix Ratio	1 : 1 by volume

AVAILABILITY MiTek's Incredi-Bond is available through select distributors who can provide you with all your construction needs. Please contact us at (800) 328-5934 for a distributor near you.

WEBSITE www.MiTek-US.com

SHELF LIFE / STORAGE For best results, store between 40 °F (4 °C) and 95 °F (35 °C). Shelf life is 24 months when stored in unopened containers in dry conditions.

PACKAGING

Cartridge	Part #
8.6 oz. (254ml) cartridge	IB-9

Installation

See Manufacturer's Printed Installation Instructions (MPII). Due to occasional updates and revisions, always verify that you are using the most current version of the MPII. In order to achieve maximum results, proper installation is imperative.

Incredi-Bond 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. Incredi-Bond is heavier than water and is not recommended for "vertical" cracks or spall repair underwater.

APPLICATION TEMPERATURE

Substrate and ambient air temperature between 40°F and 110°F (4°C- 43°C)

CONDITION PRODUCT

When the work environment or substrate falls below 70°F (21°C) condition the product to 70-75°F (21°C – 24°C) prior to use. Temperature will affect the workability and cure time of epoxy.



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COVERAGE

The 8.6oz. (254 ml) cartridge will yield approximately 20 linear feet (6,1 m) when drawing a ¼ x ¼ inch (0.64 x 0.64 cm) bead. When used as a capping material for crack injection, estimate roughly 5-7 linear feet per cartridge. The quart kit will yield approximately 1/3 sq. ft. (309,7 cm²) at 1 inch (2.54 cm) depth.

LIMITATIONS & WARNINGS

- Product may discolor from UV exposure
- Once cured it can be coated or painted to meet desired appearance; see MPII
- New concrete should be a minimum of 28 days old prior to crack repair
- Do not thin with solvents, as this will prevent cure
- NOT intended for repairing cracks subject to movement, so repairs should be made to the cracked member to eliminate the cause of the cracking prior to usage
- Product may sag when dispensing underwater into vertical cracks or spalls
- Adhesive in cartridge is fully dispensed when plunger reaches halfway

SPECIFICATION

The repair adhesive system shall be a two component epoxy bonding adhesive agent. When cured 7 days and at a temperature of 75 °F (24 °C), the adhesive shall have a 7 day peak compressive strength of 12,720 psi (87.7) Mpa per ASTM D695. Adhesive shall be Incredi-Bond manufactured in Pompano Beach, Florida and distributed by MiTek.

SURFACE PREPARATION

Surface preparation will be dependent upon the application for the product. Old concrete must be clean and profiled or textured. New concrete should be a minimum of 28 days old. Prepare the surface by rough-grinding, scarifying, bush hammering or by using other equipment that will give a roughened profile. A roughened surface is imperative for good adhesion. Always be sure the bonding surfaces are prepared in advance before starting a new cartridge or mixing product. If at all possible, schedule dispensing to consume an entire cartridge at one time with no interruption of epoxy flow.

CLEAN UP

Always wear appropriate protective equipment such as safety glasses and gloves. Clean uncured materials from tools and equipment with mild solvent. Cured material can only be removed mechanically.

SAFETY

Please refer to the Safety Data Sheet (SDS) for Incredi-Bond published on our website, MiTek-US.com or call Customer Service at 1-800-328-5934.

WARRANTY

MiTek® Inc. 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. MiTek 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 MiTek or another distributor. If the product is proven to be in nonconformance, the Buyer's sole remedy shall be a refund of the purchase price or replacement of product.