

#1001 EXPRESS INJECTION EPOXY

Distributed by: **Best Materials LLC** Website: www.bestmaterials.com Phone: **800-474-7570, 602.272.8128**

DESCRIPTION

100% Solids moisture insensitive epoxy designed to permanently restore structural strength to cracked concrete. Unique wetting properties allow for maximum penetration into cracks above 0.005".

COMPLIANCES

**ASTM C881
TYPE I, II, IV AND V
GRADES 1, 2, and 3
CLASS B & C**

Manufacturer

CPR Products, Inc.
1315 West Lark Ind. Park.
St. Louis, MO 631026

PROPERTIES OF #1001 EXPRESS INJECTION EPOXY

Mix Ratio	2:1 by volume	
Pot Life	9 minutes	
Gel Time	10 minutes] @73°F
Initial Cure	14 minutes	
Final Cure	24-48 hours	
ASTM C-881		

Initial Viscosity
Low Viscosity > 150 cps.

Cured Properties

Compressive Strength	ASTM D-695	7,624 psi
Bond Strength	ASTM C-882	1,500 psi [2 days]
Slant Shear Strength	ASTM D-732	1,047 psi [2 days]
Tensile Strength	ASTM D-638	3,641 psi
Shrinkage	ASTM C-883	Pass
Heat Distortion	ASTM D-648	>120°F
Water Absorption		0.03%
Shore D Hardness		77.4

Benefits

- Moisture insensitive, cures on damp or wet surfaces.
- Easy 2:1 mix ratio
- No shrinkage
- Excellent adhesion to concrete, wood and metals.
- Deep penetrating and tenacious bonding of cracks in structural concrete.

How to use

Surface Preparation: Surface must be clean and sound. Remove all dirt, grease, wax, curing compounds and other foreign matter. Remove water and dust from all surfaces with an oil free air blast prior to application.

Mixing: Mix each component separately before blending two Parts A with one Part B by volume in a clean pail. Mix thoroughly for 2 minutes with a low speed drill.

Mix only the quantity that can be used within 5 minutes. If using automated or manual injection equipment, do not allow mixed material to reside in static mixing head for more than 5 minutes or blockage may result.

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Application:

To gravity feed cracks on grade— sweep dry sugar sand into a V notched crack. Fill approx. 1/4". Pour neat #1001 into crack until completely filled. Top off as necessary.

To gravity feed cracks above grade— seal underside of slab with epoxy surface sealer. When paste is set up, pour neat #1001 into crack. Top off as necessary.

To pressure inject cracks— Use automated or manual equipment. Set appropriate injection ports based on system used. Seal ports and crack with epoxy surface sealer. Once the epoxy surface sealer has cured, inject #1001 with steady pressure beginning at the lowest port and working up. Consult Technical Service for more detailed instructions.

To anchor bolts, dowels and pins— Annular space around bolt should not exceed 1/8"; depth of embedment is typically 10-15 times the bolt diameter.

Limitations/Precautions

- Temperature of substrate must be above 40°F.
- New Concrete must be at least 28 days old.
- Do not thin, solvents prevent proper cure.
- Do not seal exterior slabs on grade

Component A Irritant— prolonged contact with skin may cause irritation. Avoid eye contact.

Component B Corrosive— Contact with skin may cause severe burns. Avoid eye contact. Product is a skin sensitizer. Use safety glasses and gloves. Avoid breathing vapors. Use adequate ventilation. In case of skin contact, remove any contaminated clothing. Wash area of contact with soap and water. For eye contact, flush immediately with plenty of water for at least 15 minutes. Contact physician immediately.

Packaging

- 16.5 oz. Dual cartridges packed 15 per case
- 3 gallon unit
- 15 gallon unit

Storage

#1001 should be stored in a dry environment between 60-80°F. Unmixed material may crystallize if exposed to temperatures below 60°F.

Technical Service

Complete technical service and specification services are available from the manufacturer and their authorized representatives.

Warranty

All recommendations, statements and technical data contained herein are based on tests we believe to be reliable and correct. CPR Products, Inc. warrants its products to be free of manufacturing defects and that at the time and/or place of shipment our material will meet current published physical properties when applied with ASTM and CPR Products, Inc. standards. CPR Products, Inc. liability is limited to the replacement of the material if found to be defective. As CPR Products, Inc. has no control of the use to which others may put its products, it is recommended the products be tested to determine if suitable for specific application and/or our information is valid in a particular circumstance. Responsibility remains with the architect, engineer, contractor and the owner for the design, application and proper installation of each product. Nothing contained herein shall be construed to be a recommendation to use or as a license to operate under or to infringe any existing patents.

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