BONDING ADHESIVE
100% SOLIDS
BONDS CONCRETE, STEEL AND WOOD

EP 1000 EPOXY

HIGH STRENGTH
PRESSURE INJECTION
SOLVENT-FREE

PRODUCT DESCRIPTION

EP 1000 EPOXY is a two component, low viscosity, moisture insensitive, high modulus, structural epoxy bonding adhesive and crack injection resin. EP 1000 EPOXY is 100% solids, solvent free, low odor, and high strength.

- Bonding concrete, steel and wood
- Gravity feed or pressure injection crack repairs
- Anchoring bolts, dowels and reinforcing bar
- VOC content = 0 grams per liter

PRODUCT APPLICATIONS

Mixing Instructions: Air, material, and surface temperatures must be a minimum of 40°F prior to mixing or installation. To assist with mixing and dispensing, precondition material to 75°F. For bulk applications, mix two parts of component A and one part of component B by volume for three minutes with a low speed drill motor using a Jiffy mixer or paddle. Mix only as much material as can be used within the pot life. For cartridges, the resin and hardener are uniformly dispensed and mixed simultaneously through a mixing nozzle.

Surface Preparation: Surfaces to be bonded must be clean and structurally sound. Remove all oil, grease, dirt, laitance, curing compounds, and any other foreign matter by sandblasting, mechanical abrasion or oil free compressed air. For pressure injection, prepare the surface adjacent to the cracks to expose clean, sound concrete.

Crack Injection: Injection ports should be fastened to the surface of the concrete using a fast setting gel epoxy. The injection ports should be spaced approximately 6" to 24" apart depending upon the crack width and the thickness of the concrete. The surface of the crack should also be sealed using the fast setting gel epoxy overlapping the crack approximately 1-1/2" on both sides. After the ports and crack surface have cured, inject EP 1000 EPOXY with pressurized dispensing equipment or use cartridges.

Bonding: As a structural adhesive, apply the EP 1000 EPOXY neat and work into the substrate. The glue line should not exceed 1/16". (approx 75 sq-ft per gal)

Overlay bonding: Prime all surfaces with EP 1000 Epoxy at approximately 100 sq. ft. per gallon. Apply with a notched squeegee, broom, or roller to assure complete coverage. Coverage will depend upon the condition and texture of the surface. While the epoxy is still wet (max. 30min.) broadcast a course dry sand (16/40 gradation) to the point of refusal (approximately 1 lb. of dry sand per sq -ft) Allow to dry a minimum of 12 hours and remove any loose sand with a broom and vacuum before applying an overlay or topping.

CLEANING

Tools and Equipment: Uncured material can be removed with a Citrus Cleaner or other approved solvent. Dispose of in accordance with local, state, and federal disposal regulations. Mechanical removal is necessary for cured material.

STANDARDS

EP 1000 Epoxy meets ASTM C-881, Type I, II, IV, and V Grade 1, Classes B & C.

PACKAGING

1 gallon units; 3 gallon units; 15 gallon units; 15 oz. dual cartridge

SHELF LIFE

Store EP 1000 Epoxy in its original containers and keep tightly closed. Do not allow the accumulation of water, dirt, or other contaminants. The shelf life of properly stored EP 1000 Epoxy is two years from date of manufacture.

LIMITATIONS

Always test a small amount of EP 1000 Epoxy to verify that the product has been thoroughly mixed and will harden properly before proceeding. Do not thin with any solvent. Surface and air temperatures must be a minimum of 40°F for application.

DO NOT EXPOSE TO OR APPLY NEAR FIRE OR FLAMES. FOR WELL VENTILATED OR EXTERIOR USE ONLY!

PRECAUTIONS

Prolonged or repeated skin or eye contact may cause irritation. Use safety glasses and wear protective rubber gloves. If skin contact occurs, wash immediately with soap and water and seek medical help if needed. If eye contact occurs, flush immediately with water and seek medical help if needed. In case of ingestion, call a physician. Product is a sensitizer. Avoid breathing vapors.

INDUSTRIAL USE ONLY

Additional precautions, safety and first aid information are contained in the Material Safety Data Sheet.

TYPICAL PROPERTIES

Mix Ratio	2 to 1
Mixed Color:	Gray
Viscosity:	700 CPS

TYPICAL CURED PROPERTIES

Initial Cure	24 hours
Final Cure	7 days
Compressive Strength (ASTM D-695)	11,500 psi
Compressive Modulus (ASTM D-695)	325,500 psi
Bond Strength at 2 days (ASTM 882)	2,350 psi
Bond Strength at 14 days (ASTM 882)	3,150 psi
Elongation (ASTM D-638)	1.8 %
Tensile Strength (ASTM D-638)	7,195 psi
Water Absorption (ASTM D-570)	< 0.5%
Heat Deflection (ASTM D-648)	122°F

LIMITED WARRANTY

Lyons Manufacturing Inc. warrants the high quality of its products. However, because of many factors beyond our control in its use, such as job conditions, workmanship, etc., the liability of all parties making and selling this product is expressly limited to the refund of the purchase price of replacement of this material used. Lyons Manufacturing, Inc. will replace any product proven to have a manufacturing defect, FOB Factory, provided Lyons Manufacturing, Inc. is notified of such defect within six (6) months from the date of shipment from the factory. This warranty is in lieu of all other warranties, expressed or implied. Lyons Manufacturing, Inc. makes no warranty of suitability of its products for any particular application and sells its products upon the condition that customer shall conduct their own test to determine the suitability of the product for their purpose. Under no circumstances will Lyons Manufacturing, Inc. be liable for economic, special, incidental, or consequential damages or losses of any kind.

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