

101LV EPOXY

TWO PART INJECTION EPOXY RESIN FOR CONCRETE REPAIR

PRODUCT DESCRIPTION: *101LV Epoxy* is a two component, 100% solids, moisture-insensitive, epoxy resin compound that is formulated as a low viscosity, high modulus, adhesive and mortar binder. *101LV Epoxy* is used as a rapid setting, pressure-injection resin, and for structural repairs of horizontal concrete.

BENEFITS:

- Solvent free
- Low viscosity for increased penetration into hairline cracks
- High compressive, tensile, and flexural strengths

COMPOSITION:

Part A:	100% solids liquid epoxy resin
Part B:	Liquid amine cure

LEED CREDIT CONSIDERATIONS: MR Credits 5.2: Regional materials-Greater than 20% extracted, processed and manufactured regionally at production location: Kankakee, IL 60901. 90%. Content- Harvested within 500 miles.

PHYSICAL DATA:	PROPERTIES @ 25 DEGREES C
Color Part A:	Clear Gardner: 5 max.
Part B:	Amber Gardner: 7 max.
Mixing ratio (A&B):	2:1 by volume
Viscosity (mixed):	100-150 cps
Pot life:	25 to 35 minutes
Initial cure:	30 minutes
Tensile strength: ASTM D-638	8,500 psi
Tensile elongation: ASTM D-638	3%
Flexural strength: ASTM D-790	9,000 psi
Compressive strength: ASTM D-695	12,000 psi
Bond strength: ASTM C-882	2,800 psi
Shear strength: ASTM D-732	5,100 psi

TECHNICAL DATA: *101LV Epoxy* is formulated to meet **ASTM C-881 (AASHTO M 235)** specifications for **Types I, II, IV, &V, Grades 1 & 2, Classes B & C**

SURFACE PREPARATION: Surfaces must be structurally sound, clean, dry and free of dust, dirt, oils, salts, laitance and other contaminants. Remove defective concrete, cavities, cracks, voids and other defects by routing to sound material. Sandblast, shotblast or acid etch surfaces to provide a clean, absorptive substrate. Blow debris out of the cracks and from the surface with a moisture and oil free air jet.

MIXING: 15oz cartridge: Make sure the *101LV Epoxy* cartridges are between 60° to 80° F before using to achieve proper cure. Twist of the cap on the cartridge unit and remove the divider plugs. Place 1/4 " diameter static mixer tube over cartridge opening, slide cap over the static mixer and tighten. Load into dispensing tool. Dispense and discard a bead of material to achieve a proper mix as indicated by a uniform, streak-free color.

1, 3, and 15 gallon units: Pre-mix *101LV Epoxy* Part A and Part B separately. Combine **two** parts of Part A base to **one** part of Part B hardener in a clean container and mix thoroughly, using a slow speed motor and paddle mixer.

Scrape the sides and bottom of the container during mixing. Do not aerate the mix. Increased material volume and temperature will shorten pot-life.

DIRECTIONS FOR USE: To use **101LV Epoxy** for pressure grouting, the material can be injected into cracks ranging in size down to .002 inches with pressures ranging from 40-300 psi. Depending upon the depth of the slab or wall, drill holes directly into the crack to a minimum of 50% of the width of the wall thickness and place injection ports every 6" to 1' along the length of the crack. To inject vertical cracks, install injection ports at appropriate intervals using **Specco 301 Fast Set Epoxy Gel Paste** to anchor ports and seal the surface of the crack. After the **301 Fast Set Epoxy Gel Paste** has sufficiently set, pump the **101LV Epoxy** starting at the bottom of the crack and working upward.

To inject or fill horizontal cracks, route out cracks and remove dust and debris. Pressure injection method is the same as for vertical cracks. For gravity feed, pump **101LV Epoxy** until cracks are filled. More than one application may be required.

CAUTIONS: Do not apply **101LV Epoxy** in temperatures below 50 degrees F or to frozen, frost-filled or damp surfaces. Keep away from heat, sparks and open flame. Use with adequate ventilation. 101LV contains an alkaline amine. Avoid breathing vapors and prolonged contact with the skin. Wear protection during mixing and handling.

GHS HAZARD RATINGS: DANGER



Irritant: **Respiratory Tract Irritation.**



Health Hazard: **Reproductive Toxicity**



Health Hazard: **Corrosive Liquid**

WARNINGS: DANGER: HEALTH HAZARD, IRRITANT CORROSIVE LIQUID: Avoid ingestion, skin and eye contact and inhalation of the vapors. Avoid contact with skin and eyes. Wear protective clothing and safety glasses during application. Use with OSHA/NIOSH approved air (vapor) respirator. Keep away from food and drink. Do not take internally. **FOR INDUSTRIAL USE ONLY. KEEP OUT OF REACH OF CHILDREN. Refer to product S.D.S. (SAFETY DATA SHEET) for FIRST AID INFORMATION, or any related health and safety information before using this product. For medical emergencies only, call INFOTRAC @ 800-535-5053.**

H.M.I.S. CODES:

Component A: HEALTH = 2, FLAMMABILITY = 1, REACTIVITY = 0, P.PROTECTION = G.

Component B: HEALTH = 3, FLAMMABILITY = 1, REACTIVITY = 0, P.PROTECTION = G

SHIPPING NAMES:

Component A: Epoxy Resin / CAS# 025085-99-8 / Not currently regulated by D.O.T.

Component B: Amidoamine Curing Agent / CAS# 2855-13-2 / regulated by D.O.T.

SHIPPING CLASS: UN1760, Contains Amidoamine Resin Mixture, CORROSIVE LIQUID N.O.S., HC8, PG III
ITEM 33880, SUB 2, LTL 65- EPOXY BONDING AGENT

PACKAGING: 15 ounce cartridges (15/ case), 1, 3, and 15 gallon units

STORAGE: 50 to 90 degrees F

SHELF LIFE: 2 years properly stored

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