



# 101LV EPOXY

## TWO PART INJECTION EPOXY RESIN FOR CONCRETE REPAIR

**Specco 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

**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.

### COMPOSITION:

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

**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**

PHYSICAL DATA:	PROPERTIES @ 25 DEGREES C
Color-Part A:	Clear Gardner: 5 max.
Color-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

**SURFACE PREPARATION:** Surfaces must be structurally sound, clean, dry and free of dust, dirt, oils, salts, laitance and other contaminates. 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.





**APPLICATION:** 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 a 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 AT 800-535-5053.

**H.M.I.S. CODES:**

Component A: HEALTH = 2, FLAMMABILITY = 1, REACTIVITY = 0, PERSONAL PROTECTION = G.  
Component B: HEALTH = 3, FLAMMABILITY = 1, REACTIVITY = 0, PERSONAL 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

**WARRANTY:** Specco Industries Inc (Specco) solely and expressly warrants that its products shall be free from defects in materials and workmanship for one (1) year from the date of purchase. Unless authorized in writing by an officer of Specco, no other representations or statements made by Specco or its representatives, in writing or orally, shall alter this warranty. **SPECCO MAKES NO WARRANTIES, IMPLIED OR OTHERWISE, AS TO THE MERCHANTABILITY OR FITNESS FOR ORDINARY OR PARTICULAR PURPOSES OF ITS PRODUCTS AND EXCLUDES THE SAME.** If any Specco product fails to conform with this warranty, Specco will replace the product at no cost to Buyer. **Replacement of any product shall be the sole and exclusive remedy available and buyer shall have no claim for incidental or consequential damages.** Specco does not authorize anyone on its behalf to make any written or oral statements which in any way alter Specco's installation information or instructions in its product literature or on its packaging labels. **Specco explicitly excludes any written or oral statements or implied warranty on the performance of an applied/installed product manufactured or sold by or through Specco.** Specco has no control over Specco application standards adherence, site conditions, atmospheric variations, installer/applicator skill level or the determination of the suitability of any Specco products for a specific intended purpose. **Buyer shall be solely responsible for determining the suitability of Specco's products for the Buyer's intended purposes.** Product demonstrations, if any, are done for illustrative purposes only and do not constitute a warranty or warranty alteration of any kind.

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