



LCR™ – Epoxy Injection Resin | AVAILABLE IN LOW AND HIGH VISCOSITY FORMULAS

Manufactured by Polygem, 5600 Lower Macungie Rd. | Macungie, PA 18062 | 630-231-5600 | Made in USA

POLYGEM
polygem.com

PRODUCT DESCRIPTION

LCR™ Epoxy Injection Resin is a 100% solids, two-component, moisture insensitive epoxy designed to permanently restore structure and design strength to cracked concrete structures. Unique wetting properties allow maximum penetration of LCR into cracks above .005". LCR liquid concrete repair injection epoxy can be used on wet or dry surfaces, as well as underwater.

ADVANTAGES

- **100% Solids**
- **No VOCs**
- **No Solvents**
- **Chemical Resistant**
- **Restores Structural Strength**
- **Excellent Adhesion**
To Concrete, Wood, Fiberglass, & Metal Surfaces

RECOMMENDED USES

LCR RESIN permanently repairs cracks in many concrete surfaces or forms.

- **Basement Foundations**
- **Industrial Warehouses**
- **Residential Flooring**
- **Patios, Sidewalks & Balconies**
- **Parking Decks**
- **Reservoirs & Tank Repair**
- **Pool Leak Repair**

SURFACE PREPARATION

Surface must be dry, and free of all contaminants before proceeding. Remove all loose or flaking concrete with a wire brush. Dirt, grease and flaking paint must also be removed prior to application.

APPLICATION INSTRUCTIONS

WEAR GLOVES & EYE PROTECTION

1. Detailed instructions for mixing the cartridge can be found on or in the packaging that came with the cartridge(s). Follow those instructions then proceed to step 2.

Note: When repairing a wall, crack must be temporarily sealed with LCR Epoxy Repair Paste and injection ports properly mounted. See the technical data sheet for LCR Epoxy repair paste or the instructions that come with the paste for more information on sealing a crack and mounting ports.

2. Once fully mixed, screw the threaded nozzle onto the cartridge and load the cartridge into a standard caulking gun to dispense.

3. When dispensing, make sure to do so with a slow & even pressure. Pay attention to how the resin is flowing into the crack or repair surface making sure it is penetrating the concrete and not overflowing onto the surface.

Note: Mixed resin will begin to harden within 30 minutes and cannot be saved for later. Resin must be injected within 30 minutes of having been mixed.

4. Once repair has been made and the crack has been fully injected if there is any unused resin left in the cartridge, back off pressure on the caulk gun, remove cartridge, and allow it to solidify before disposing of the cartridge.

5. Clean up any uncured epoxy with isopropyl alcohol or acetone.

PACKAGING

LCR RESIN comes in **10 fl. oz. single caulk style cartridges** available in low, high, and extra high viscosity formulas.

SHELF LIFE

Factory sealed containers of this product are guaranteed to be of first quality for a minimum of 24 months.

LIMITATIONS

Not for use on contaminated or oily surfaces.

DO NOT install when surface temperature is below 40°F (4°C) or above 90°F (32°C).

During damp and/or cool conditions LCR Resin will cure slower. **DO NOT** put repaired concrete into service until fully cured.

TECHNICAL DATA

All values measured after 7 days at 73°F (23°C).

TYPICAL PROPERTIES

Pot Life: (100 gms) 55 min.
ASTM D-2471

Working Time: (73°F - 23°C) 30 min.

Thin Film Set Time: (73°F - 23°C) 2-3 hrs.

Full Cure Time: 24 hrs.

Compressive Strength: 7,908 psi
ASTM D-695

Compressive Modulus: 135 ksi
ASTM D-695

Tensile Strength: 5,868 psi
ASTM D-698

Flexural Modulus: 270 ksi
ASTM D-790

Flexural Strength: 948 psi
ASTM D-790

Elongation at Break: 2.73%
ASTM D-638

Shrinkage: 0.001 in./in.

Heat Deflection Temp: (at 66 psi) 120 °F (49 °C)

Shore D Hardness: 80D
ASTM D2240

Viscosity:

Low Viscosity Cartridge (LV): 580 cps.

High Viscosity Cartridge (HV): 1,910 cps.

POLYGEM LIMITED WARRANTY:

Polygem warrants that during the shelf life of the product (as determined from the date of manufacture), the product will conform to the specifications provided in this technical bulletin. **POLYGEM MAKES NO OTHER WARRANTIES, EXPRESSED, IMPLIED, OR STATUTORY, INCLUDING WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.** Neither any performance or other conduct, or any oral or written representation, statement or advice provided by Polygem or any of Polygem's distributors, agents, or employees will create a warranty, or in any way increase the scope or duration of this limited warranty. Polygem will have no warranty obligation if the product becomes defective, in whole or in part, as a result of: (i) the transportation of the product; (ii) any alteration or modification to the product by third parties; or (iii) improper handling or storage of the product (including improper handling or storage by third-party carriers or distributors).

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