



LCR™ – Epoxy Repair Paste | LIQUID CONCRETE REPAIR & EPOXY CRACK SEALER PASTE

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

POLYGEM
polygem.com

PRODUCT DESCRIPTION

LCR™ – Epoxy Repair Paste is a high strength two-component, moisture insensitive epoxy with many uses. The paste bonds easily to concrete, wood, metal, fiberglass, plastic, glass and more. It can be purchased separately and also as part of our LCR Basement Foundation Crack Repair Kit.

LCR – Epoxy Repair Paste can be used to adhere tiles, make household repairs and as a bonding adhesive for hobby and craft projects. It is also an excellent material for anchoring, patching, grouting and crack repair.

ADVANTAGES

- Easy to Mix
- No Solvents
- Sandable
- Paintable
- Excellent Adhesion
- High Strength
- Impact Resistant

RECOMMENDED USES

FOR CONCRETE:

- Repair Cracks in Driveways
- Pools & Patios
- Foundations
- Sidewalks
- Floors

FOR WOOD:

- Repair Wood Rot
- Laminate
- Bond
- Glue

FOR METAL:

- Auto Body Repair
- Thread-Lock
- Pipe Repair
- Joining

FOR FIBERGLASS:

- Boat Repair
- Auto Body
- Pools
- Hot Tubs

PACKAGING

Available in a Kit, as a **single unit** or as **single units in a case pack of 6**.

STORAGE & HANDLING

We recommend to store the material at 72°F (23°C).

LIMITATIONS

DO NOT install on damp or wet surfaces or at temperatures below 72°F (23°C) or above 90°F (32°C).

During damp and/or cool conditions LCR Epoxy Repair Paste will cure slower. **DO NOT** put into service until fully cured.

TECHNICAL DATA

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

TYPICAL PROPERTIES

Mix Ratio: (by volume).....	1A to 1B
Pot Life: (100 gms)	60 min.
ASTM D-2471	
Working Time: (73°F - 23°C - 100 gms)	30 min.
Thin film working Time: (73°F - 23°C - 100 gms)	1 hr.
Full Cure Time:	16 hrs.
Compressive Strength:	6,798 psi
ASTM D-695	
Compressive Modulus:	157 psi
ASTM D-695	
Tensile Strength:	2323 psi
ASTM D-638	
Elongation:	0.35%
ASTM D-638	
Specific Volume: (Mixed)	17.60 cu in/lb
ASTM D-638	
Shrinkage:	0.0001 in./in.
Heat Deflection Temp:	115 °F (46 °C)
ASTM C882	
Shore D Hardness:	81 D
ASTM D2240	
Viscosity:	Heavy Paste
Color:	Grey

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

1. Measure & Mix- After pre-mixing Parts A & B, measure out equal parts 1A:1B by volume. Combine and mix material thoroughly until "streak free" and uniform in color.

NOTE: LCR – Epoxy Repair Paste has many uses. How you apply it will depend on your intended use of the material.

2. Bonding- Apply mixed epoxy evenly to both surfaces to be joined. Press parts together firmly and clamp or brace. Allow the full 24 hour cure before removing the clamps, sanding or painting.

APPLICATION INSTRUCTIONS – CONTINUED FROM PG. 1

- 3. Anchoring**– Drill a hole .125 in. (3mm) larger than the anchor to be used. Remove drill cuttings/dust with a vacuum or compressed air. Once hole is clear of debris fill it halfway full with properly mixed epoxy and insert the anchor in a twisting motion to fully coat all sides of it with the epoxy. Epoxy should be smooth and level with the surface when the anchor is fully inserted. **DO NOT** put the anchor into service until the epoxy has been allowed to cure the full 24 hours.
- 4. Patching & Repair**– Apply mixed epoxy evenly over surface to be patched or repaired. Use a trowel or putty knife dipped in water to spread and achieve a smooth surface. More water can be used while spreading as needed. Allow patch to cure the full 24 hours before sanding or painting.
- 5. Grouting**– When using as a grout material, add sand, gravel, or metal filings to mixed epoxy as needed to produce a trowelable mortar.
- 6. Crack Sealing**– When using as a temporary crack sealer for mounting injection ports to inject LCR™ Resin, properly mixed LCR Epoxy Repair Paste should be applied lightly around the perimeter of the injection ports.
The paste should fill the small holes in the base of the port, but not the large central hole which must remain open. Mount ports over the crack & allow them to set for 30 minutes before applying more paste on and around the base of the ports and lightly sealing the crack to be injected. The first port should be placed 6 in. (152 mm) from

the floor with a maximum spacing of 12 in. (305 mm) between the ports. The Epoxy Repair Paste should be a minimum of 2 in. (51 mm) wide centered on the crack and applied with a mixing stick or putty knife.

NOTE: Full directions for mounting injection ports and sealing a crack with LCR Resin can be found on the packaging that comes with the LCR Resin or the LCR Liquid Concrete Repair Kit. **DO NOT:** Rely solely on above abbreviated directions to make the repair.

- 7. Removing Injection Ports**– After repair has been made and the injection resin has fully cured for 48 hours the injection ports must be removed. The ports may be knocked off with a pallet knife and hammer or by using an oscillating multi-tool at their base.

8. Removing Excess Epoxy Paste– After Full Cure

NOTE: Room should be properly ventilated before proceeding.

Sanding/Grinder Method– (Wear a dust mask)

A high speed sander with an 80 grit sand paper or lower or a grinder may be used to carefully remove excess epoxy used to temporarily seal the crack for resin injection.

Heat Method– (Wear a NIOSH approved respirator)

A heat gun may be used on a low setting to soften the epoxy to aid in its removal. Heat small sections at a time, being careful not over heat or melt the epoxy.

As the crack sealer paste softens a scraper may be used to easily scrape the excess epoxy away. Once removed a sander may be used to smooth the surface if there are any rough spots from scraping.



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