



CE110 INJECTION RESIN

SUPER LOW VISCOSITY INJECTION RESIN

ITEM NUMBER CE110

DESCRIPTION

CE110 Injection Resin is two-component, 100% solids, moisture-insensitive, ultra-low viscosity, high strength, high modulus, multi-purpose liquid epoxy adhesive. It meets the current ASTM C881 and AASHTO M235 Types I, II, IV & V Grade 1, Classes B & C specifications.

INDUSTRY USES

Use for pressure-injection of hairline cracks in structural concrete, masonry, wood, etc. Can also be used for delamination injection, wood beam injection, gravity feed of cracks in horizontal concrete and masonry. Useful as an epoxy resin binder for epoxy mortar patching and overlay of interior, horizontal surfaces.

BENEFITS AND FEATURES

- Structurally restores integrity of concrete
- Ultra Low Viscosity for deep penetrating
- High strength structural adhesive
- Made in America
- Moisture Tolerant
- Solvent Free
- Convenient 2:1 mix ratio by volume
- Healer sealer closes hairline and shrinkage cracks on bridge decks

COVERAGE

1 gal / 3.8 L of mixed epoxy yields 231 cu in. / 0.0037 cu m of epoxy.

PACKAGING

- 1 gal / 3.8 L units
- 3 gal / 11.4 L units
- 15 gal / 56.8 L units
- 165 gal / 624.6 L units
- 450 ml cartridge

TECHNICAL DATA

Shelf Life:	2 years year in original unopened container.
Storage Conditions:	40°F – 95°F (5°C – 35°C).
Condition material to:	65°F – 85°F (18°C – 29°C) before using.
Mix Ratio	2:1 by volume
Viscosity	100-500 cps
Gel Time (60 g mass)	45 minutes
Tack Free Time (73°F or 23°C)	3 to 5 hours
Tensile Properties (ASTM D638), 7 day cure	
Tensile Strength:	10,000 psi (67.0 MPa)
Tensile Elongation:	1.2%
Bond Strength (ASTM C882)	
2 day cure:	2,100 psi (14.5 MPa)
14 day cure:	2,200 psi (15.2 MPa)
Compressive Properties (ASTM D695), 7 day cure	
Compressive Strength:	11,000 psi (75.9 MPa)
Compressive Modulus:	300,000 psi (2,070 MPa)
Shear Strength (ASTM D732)	6,000 psi (41.4 MPa)
Flexural Strength (ASTM D790)	7,500 psi (51.7 MPa)
Shrinkage on Cure (ASTM D2566)	0.001
Thermal Compatibility (ASTM C884)	Pass
Heat Deflection Temperature (ASTM D648)	123°F (50°C)



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Water Absorption (ASTM D570)	0.3% (24 hr)
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APPLICATION

MIXING: Mix only the amount of material that can be used within its pot life. Proportion each component carefully into a clean pail. Mix thoroughly for 3 minutes with a Jiffy mixer on low speed (400-600rpm). Scrape the sides and bottom of the container. To prepare an epoxy patching mortar, slowly add 4-5 parts of oven-dried silica sand to 1 part of mixed epoxy by volume. Mix only until all aggregate is wetted out.

TO PRESSURE INJECT CRACKS: It can be dispensed with automatic injection equipment.

TO GRAVITY FEED CRACKS: Seal underside if cracks reflect through. Pour mixed epoxy into cracks. Repeat until completely filled.

TO PATCH AND GROUT: Prime substrate with neat mixed epoxy. Place epoxy mortar using trowels before primer becomes tack-free.

LIMITATIONS

Minimum substrate temperature is 40°F (5°C). Do not thin. Solvents will prevent proper cure.

CLEAN UP

Collect with absorbent material. Flush area with water. Dispose of in accordance with local, state and federal disposal regulations. Uncured material can be removed with Natural Clean or other approved solvent. Cured material can only be removed mechanically.

LIMITED WARRANTY

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