



FasTrac CE110 Injection Resin

LOW VISCOSITY INJECTION ADHESIVE



Technical Data Sheet

PRODUCT DESCRIPTION

FasTrac CE110 Injection Resin is a 100% solids, low viscosity injection adhesive for pressure injection or gravity feed repair of fine and hairline cracks. FasTrac CE110 Injection Resin meets the requirements of ASTM C 881 and AASHTO M 235 Types I, II, IV and V, Grade 1 Classes B and C. FasTrac CE110 Injection Resin may be used for concrete, masonry, and wood substrates.

APPLICATIONS

- Pressure Injection of Fine Cracks
- Gravity Feed of Fine Cracks
- Injection for Delamination Applications
- Structural Bonding
- Dry or Damp Applications

FEATURES

- Very Low Viscosity
- High Bond Strengths
- Gravity Feed or Pressure Injectable
- High Tensile Strengths
- Moisture Tolerant

PREPARATION

Cracks to be injected should be blown free of dust, debris and moisture using oil free compressed air. **For pressure injection applications**, set injection ports on 8 inch centers. Apply rapid setting non sag epoxy on bottom of ports, taking care not to obstruct bottom opening of port. Center and set ports on crack. Apply Fastrac CE308 as cap seal across and along crack. Cap seal should extend ½ to ¾ inch on either side of crack. Allow Fastrac CE308 to cure sufficiently before injecting. Connect epoxy injection equipment / cartridge to port to ensure proper fit up.

For horizontal gravity feed applications, lay a bead of caulk along and around crack to create a reservoir for adhesive to pool in after crack has been blown out with oil free compressed air.

MIXING & INSTALLATION

Best mixing and use is achieved when FasTrac CE110 Injection Resin is between 65°F and 85°F (18.3°C and 29.4°C). Mix ratio for FasTrac CE110 Injection Resin is 2:1. Pour all of Component A and all of Component B into separate mixing containers. Scrape sides of both component containers to ensure minimal hold back and correct mix ratio. Mix with slow speed drill and paddle for approximately 2 to 3 minutes. Do not whip air into liquids. Transfer mixed adhesive to injection equipment and use immediately after mixing. **For pressure injection**, begin injection at one end of crack and move to adjacent port once adhesive is seen at adjacent port. Cap entry port and move to next port and continue injecting. **For horizontal gravity feed applications**, pour adhesive over crack starting at one end and move down crack length. Allow crack to fill and add additional adhesive as required until crack no longer accepts adhesive. Grind off excess adhesive after cure.

CURING

FasTrac CE110 Injection Resin is self-curing. Do not add solvents during cure. Protect from rain and freezing temperatures until design strengths are achieved. Best property development occurs when temperatures are between 70°F and 90°F (21°C and 32°C).

CLEAN UP

All surfaces, tools and equipment may be cleaned with water and detergent prior to adhesive setting.



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PACKAGING, STORAGE AND SHELF LIFE

Package size – 15.2-ounce (450 ml) cartridge, ¾ gallon (2.84 liters), 1.5 gallon (5.7 liter), 3 gallon (11.4 liter), 15 gallon (56.8 liter) and 165 gallon (624.5 liter) units.

¾ gallon unit yields approximately 173 cubic inches (0.0028 cubic meters) of adhesive.

Storage temperatures - 50°F to 90°F (10°C to 32°C).

Shelf Life – 2 years when stored in dry weatherproof conditions.

TYPICAL PROPERTIES at 75° F (23.8° C)

TEST METHOD	RESULTS
Mix Ratio	2:1 by volume
ASTM D1084/D2196/D2556 Viscosity	≤ 500 cps
ASTM C881 Gel-Time (60g mass)	≥ 30 min
ASTM D1640 Tack Free Time	3-5 hours
ASTM D638 Tensile Properties	Tensile Strength: ≥ 10,000 psi (68.9 MPa) Tensile Elongation: ≥ 1%
ASTM C882 Shear Strength	2-Day Cure: ≥ 1,500 psi (13.8 MPa) 14-Day Cure: ≥ 1,500 psi (13.8 MPa)
ASTM D790 Flexural Strength	≥ 8,000 psi (55.1 MPa)
ASTM D695 Compressive Strength	Compressive Strength: ≥ 10,000 psi (68.9 MPa) Compressive Modulus: ≥ 300,000 psi (2,070 MPa)
ASTM D570 Water Absorption	≤ 0.5%
ASTM D2566 Linear Coefficient of Shrinkage on Cure	≤ 0.002
ASTM C884 Thermal Compatibility	PASS
ASTM D648 Heat Deflection Temperature	≥ 120°F (50°C)

HEALTH AND SAFETY INFORMATION

Product contains epoxy resin and amines. Wear proper PPE when using this product, including gloves, eye and skin protection and NIOSH / MSHA approved respirator or dust mask. Read SDS thoroughly before use. Prop 65: This product contains chemicals known by the state of California to cause cancer.

LIMITED WARRANTY

LIMITED WARRANTY All information provided by Cornerstone Construction Material LLC (CCM) concerning CCM products, including but not limited to, any recommendations and advice relating to the application and use of CCM products, is given in good faith based on CCM's current experience and knowledge of its products when properly stored, handled, and applied under normal conditions in accordance with CCM's instructions. In practice, the differences in materials, substrates, storage and handling conditions, actual site conditions and other factors outside of CCM's control are such that CCM assumes no liability for the provision of such information, advice, recommendations, or instructions related to its products, nor shall any legal relationship be created by or arise from the provision of such information, advice, recommendations, or instructions related to its products. The user of the CCM product(s) must test the product(s) for suitability for the intended application and purpose before proceeding the full application of the product(s). CCM reserves the right to change the properties of its products without notice. All sales of CCM product(s) are subject to its current terms and conditions of sale. Prior to each use of any CCM product, the user must always read and follow the warnings and instructions on the product's most current Technical Data Sheet, product label and Safety Data Sheet which are available at www.ccmaterial.com. Nothing contained in any CCM materials relieves the user of the obligation to read and follow the warnings and instructions for each CCM product as set forth in the current Technical Data Sheet, product label and Safety Data Sheet prior to product use. CCM warrants this product for one year from the date of installation to be free from manufacturing defects and to meet the technical properties on the current Technical Data Sheet when used in accordance with the written instructions. User determines suitability of product for intended use and assumes all risks. The buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor. NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. CCM SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. CCM SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.

Every reasonable effort is made to apply exacting standards both in the manufacture of "FasTrac CE110 Injection Resin" product and in the information which we issue concerning these products and their use. We warrant our products to be good quality and will replace or, at our election, refund the purchase price of any products proved defective. Satisfactory results depend not only on quality products, but also upon many factors beyond our control. Therefore, except for such replacement or refund, Cornerstone Construction Material LLC (CCM) makes no warranty or guarantee, express or implied, including warranties of fitness for a particular purpose or merchantability, respecting its products, and Cornerstone Construction Material LLC (CCM) shall have no other liability with respect thereto. Any claim regarding a product defect must be received in writing within one year of the date of shipment. No claim will be considered without such written notice or after the specified time interval. The User shall determine the suitability of the products for the intended use and assume all risks and liability in connection therewith. Any authorized change in the printed recommendations concerning the use of our products must bear the signature of the Cornerstone Construction Material LLC (CCM) technical manager.

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