



FasTrac CE220 Bonding Agent

EPOXY BONDING ADHESIVE



Technical Data Sheet

PRODUCT DESCRIPTION

FasTrac CE220 Bonding Agent is a 100% solids, two component bonding adhesive for concrete, steel and timber substrates. FasTrac CE220 Bonding Agent meets the requirements of ASTM C 881 and AASHTO M 235 Types I, II, IV and V, Grade 2, Classes B and C. FasTrac CE220 Bonding Agent is a pourable consistency adhesive that may be used in dry to damp conditions.

APPLICATIONS

- Bonding Fresh Concrete
- Bonding Concrete to Steel
- Crack Filling
- Structural Bonding

FEATURES

- Moisture Insensitive
- Pourable
- 1:1 Mix Ratio
- High Bond Strengths

PREPARATION

Minimum substrate temperature is 40°F (4.4°C). Concrete shall have attained design strength and be structurally sound. Prepare concrete surfaces to a Concrete Surface Profile (CSP) of 4 or greater in accordance with ICRI Standard 310.2R. Remove all curing compounds, dust, debris, and bond inhibiting contaminants. Steel surfaces should be blasted to an SSPC-SP6 commercial finish. Substrate surfaces should be dry at time of application but may be damp.

MIXING

Pre-mix Components A and B separately for 30 seconds. Combine Components A and B at a 1:1 ratio (by volume) and mix with drill and jiffy / paint mixing paddle. Mix for 3 minutes until a uniform color is achieved and no streaks are present. Use immediately after mixing. To make an epoxy mortar, add 2-3 parts oven dried sand to 1 part mixed epoxy liquids. Add dried sand after epoxy liquids are completely mixed. Mix until dried sand is fully wetted and no dry pockets remain. Use immediately.

APPLICATION

Pour mixed adhesive on to bonding surfaces and roll-out uniformly with a roller, squeegee or brush to a 20 to 30 mil thickness. Do not puddle adhesive. Apply material to be bonded immediately after applying bonding adhesive. Do not apply material to be bonded if bonding adhesive becomes tack free (3 to 4 hours). For applications involving crack filling or spall repair, contact FasTrac Construction Products. For epoxy mortar applications, pour epoxy mortar into repair area full depth, starting at one corner and working across patch area.

CURING

FasTrac CE220 Bonding Agent is self-curing. Do not add solvents during cure. Protect from rain and freezing temperatures until minimal strengths and bond are achieved.

CLEAN UP

All surfaces, tools and equipment may be cleaned with FasTrac Nutri-Clean, FasTrac Epoxy Cleaner or suitable solvent prior to material hardening.



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COVERAGE, STORAGE AND SHELF LIFE

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

2 years in original unopened container.

600 ml cartridges, 1 gallon (3.8 liter), 2 gallon (7.6 liter) and 10 gallon (37 liter) units.

Approximate coverage 50 to 100 square feet per gallon at 20 mil thickness. Coverage will vary with substrate profile and porosity.

TYPICAL PROPERTIES at 75° F (23.8° C)	
TEST METHOD	RESULTS
Mix Ratio	1:1 by volume
ASTM D1084/D2196/D2556 Viscosity	≤ 3,000 cps
ASTM C881 Gel Time (60 g sample)	≥ 35 minutes
ASTM D1640 Tack Free Time	≥ 3 hours
ASTM D638 Tensile Properties	Tensile Strength: ≥ 7,500 psi (51.7 MPa) Tensile Elongation: ≥ 3%
ASTM C 882 Bond Strength	2-Day Cure: ≥ 2,300 psi (15.8 MPa) 7-Day Cure: ≥ 3,600 psi (24.8 MPa)
ASTM D695 Compressive Modulus	≥ 400,000 psi (2757.9 MPa)
ASTM C579 Compressive Strength	3-Hour Cure: ≥ 1,500 psi (10.3 MPa) 24-Hour Cure: ≥ 5,000 psi (34.5 MPa) 7-Day Cure: ≥ 10,000 psi (68.9 MPa)
ASTM D732 Shear Strength	≥ 5,000 psi (34.5 MPa)
ASTM D790 Flexural Strength	≥ 6,000 psi (41.4 MPa)
ASTM D2566 Shrinkage on Cure	≤ 0.2%
ASTM C884 Thermal Compatibility	Pass - No Delamination or Cracking
ASTM D648 Heat Deflection Temperature	120°F (49°C)
ASTM D570 Water Absorption	≤ 0.2%

HEALTH AND SAFETY INFORMATION

Product contains epoxy resin and amines. Use proper PPE including eye protection, gloves and skin protection when using this product. Read SDS thoroughly before use. Prop 65: This product contains chemicals known by the state of California to cause cancer.

LIMITED WARRANTY

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Every reasonable effort is made to apply exacting standards both in the manufacture of "FasTrac CE220 Bonding Agent" 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.