



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.



 www.fastracproducts.com

 816-380-4747

 sales@fastracproducts.com

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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
ASTM C 882 Bond Strength	2 Days	2,300 psi (15.9 MPa)
	7 Days	3,300 psi (22.8 MPa)
ASTM D695 Compressive Strength	7 Days	10,400 psi (71.7 MPa)
ASTM D695 Compressive Modulus	7 Days	406,000 psi (2799 MPa)
ASTM D 732 Shear Strength		5,500 psi (37.9 MPa)
ASTM D 790 Flexural Strength		6,000 psi (41.4 MPa)
ASTM D 2566 Shrinkage		0.2%
ASTM D 648 Heat Deflection Temperature		122°F (50°C)
Viscosity		3,300 cP
Mix Ratio		1:1
Gel Time		45 Minutes

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

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 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.

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