

CC-2002

Ultra High Temp Epoxy/Ceramic Wear Compound

PRODUCT DESCRIPTION

Blome CC-2002 is a two-part, ultra-high temp, ceramic bead filled, epoxy wearing compound. CC-2002 is designed to be used as a trowel applied lining, applied in areas requiring resistance to abrasion and erosion, as well as acids, bleaches, alkalis, solvents and other corrosive chemicals. CC-2002 is especially suited for lining applications requiring good bond strength and physical properties at higher operating temperatures (450°F - 550°F). CC-2002 is resistant to caustic solutions, most dilute acids, hypochlorite bleaches, solvents and other harsh chemicals. The material is widely used as an abrasion resistant lining for chutes, hoppers, piping and other material transfer applications.

TYPICAL USES

CC-2002 is used as a trowel applied wearing compound. It is used on concrete, steel and other surfaces in a variety of applications including:

- Chutes, Hoppers and Troughs
- Slurry Pipe Linings
- Pulverizers, Ball Mills and Classifier Cones

HANDLING CHARACTERISTICS

CC-2002 offers excellent troweling and handling characteristics, with sufficient body and thixotropy to hold itself in place and will not slide while the material cures. CC-2002 cures rapidly and provides an excellent bond to steel and concrete substrates. This unique formulation produces excellent results when used in horizontal, vertical and even overhead areas.

TYPICAL PROPERTIES **WET**

Components: Two (2) - Resin & Hardener

Mix ratio: 3:1 by volume (3R : 1H)

Wet mortar density: 14 lbs. per gallon

Mixed consistency: Trowelable

Pot life: 50°F 40 minutes

77°F 30 minutes

Initial set: 50°F 2 - 4 hours

77°F 1 - 2 hours

Final cure 50°F 7 days minimum

77°F 5 days minimum

CURED

Temperature Resistance: 450°F (excursions to 550°F)
Absorption (ASTM C-413): 0.2%
Bond Strength to concrete: Concrete failure
Bond Strength to Steel (pull test Positester AT): 1,600-2,200 psi
Color: Light Gray
Compressive Strength (ASTM C-579): 10,680 psi
Tensile Strength (ASTM C-307): 4,200 - 4,500 psi
Coefficient of Thermal Expansion (ASTM C-531): 12 - 14 x 10⁻⁶ in/in/°F
Shore D Hardness (ASTM D-2240): 85-90

PACKAGING & STORAGE

CC-2002 is supplied as a two (2)-component product, in pre-measured units at a 3:1 Mix Ratio.

Unit Sizes 1.33 gallons and 4 gallons

Resin Sizes 1 gallon and 3 gallons

Hardener Sizes 0.33 gallons and 1 gallon

Shelf life for CC-2002 components is 12-18 months. Keep CC-2002 components tightly sealed in original containers until ready for use. Store components in a cool, dry place, out of direct sunlight and on pallets at temperatures between 50°F – 80°F.

ESTIMATED COVERAGE

Coverage rates for CC-2002 are approximately 6.5 ft² per gallon at a nominal 1/4" thickness. This is an estimated coverage rate and does not allow for waste, thickness variations, or other contingencies.

BID SPECIFICATION GUIDE

Use Blome CC-2002 Ultra High Temperature Epoxy Wearing Supplied by Blome International, O'fallon, MO.

JOB SITE ENVIRONMENTAL CONDITIONS

CC-2002 is best applied while ambient temperatures are between 50°F and 90°F. CC-2002 components and substrate temperatures must also be maintained in this range. Installations of CC-2002 should be protected from water and weather during installation and curing.

SURFACE PREPARATION

Steel substrates should be prepared by abrasive blasting or grinding to achieve near white metal clean to SSPC SP-10. Steel should exhibit a nominal 2-4 mil anchor profile. Blasted steel substrates must not be allowed to flash rust prior to installing epoxy adhesive. Concrete substrates to which CC-2002 will be applied must have a minimum 28 day cure or have a minimum compressive strength of 3,000 psi. Minimum tensile strength of concrete must be 300 psi when tested using a Schmidt Hammer. Concrete must be dry in accordance with ASTM-4263 Plastic Sheet Test Method. Concrete surfaces must be free of all laitance, previously applied coatings or

curing compounds, oil, and any dust or other loose materials prior to installation of CC-2002.

SAFETY PRECAUTIONS

CC-2002 Resin, Hardener, and mixes of them present various health hazards if handled improperly. CC-2002 Resin will cause eye injury and irritate skin and CC-2002 Hardener is a corrosive. Wear safety glasses with side shields, gloves and long sleeve shirts to prevent all contact with skin and eyes. After working with CC-2002, wash thoroughly before eating, drinking, smoking or other activities.

APPLICATION EQUIPMENT

CC-2002 is best mixed with an electric drill motor driven paddle mixer. It may also be mixed with a trowel or metal mixing stick. This mixing equipment must be clean, dry and free of any contaminants including Portland Cement, other mortars or resins. When mixed, CC-2002 is applied with a pointing or margin trowel.

MIXING AND APPLICATION

CC-2002 is supplied in pre-measured 1.33 and 4-gallon units. The two components of CC-2002 have slightly contrasting colors; mix these two parts at a 3:1 Ratio by volume until a uniform color is achieved. Mix components for a minimum of 1-2 minutes, making sure there are no stripes or inconsistencies.

Typical application thickness is $\frac{1}{4}$ " or greater. Trowel apply mixed material at specified thickness over properly prepared substrates.

CLEANUP

All tools, mixing equipment, gloves and application equipment should be cleaned up immediately using a citrus or biodegradable cleanser, with hot water, while material is still wet. If material begins to cure, solvent-based cleaners will be required for removal.

WARRANTY

We warrant that our goods will conform to the description contained in the order and that we have good title to all goods sold. Our material data sheets and other literature are to be considered accurate and reliable but are used as guides only. WE GIVE NO WARRANTY OR GUARANTEE, WHETHER OF MERCHANT ABILITY OR FITNESS OF PURPOSE OR OTHERWISE, AND WE ASSUME NO LIABILITY IN CONNECTION THEREWITH. We are happy to give suggestions for applications; however, the user assumes all risks and liabilities in connection therewith, regardless of any suggestion we may give. We assume no liability for consequential or incidental damages. Our liability, in law and equity, shall be expressly limited to the replacement of non-conforming goods at our factory, or at our sole option, to repayment of the purchase price of the non-conforming goods.

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