

CC-2001 Rapid Cure Epoxy/Ceramic Wear Compound

PRODUCT DESCRIPTION

Blome CC-2001 is a rapid cure two-part, ceramic bead filled, epoxy wearing compound. CC-2001 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-2001 is especially suited for use in wear resistant applications requiring high strength, abrasion resistance, good adhesion, high physical properties and resistance to corrosive chemicals. CC-2001 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-2001 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-2001 offers excellent trowelling and handling characteristics, with sufficient body and thixotropy to hold itself in place and will not slide while the material cures. CC-2001 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:	2:1 by volume (2 Resin : 1 Hardener)
Wet mortar density:	14 lbs. per gallon
Mixed consistency:	Trowellable
Pot life:	50°F 5-8 minutes 77°F 3-5 minutes
Initial set:	50°F 1 - 2 hours 77°F 30 Minutes - 1 hour
Final cure	50°F 5 days minimum 77°F 3 days minimum

CURED

Compressive Strength (ASTM D-695)	12,400 psi
Compressive Modulus(ASTM D-695)	310,000 psi
Tensile Strength (ASTM D-638)	8,300 psi
Elongation (ASTM D-638)	<1%
Absorption (ASTM C-413)	0.24%
Bond Strength to steel (ASTM D-4574)	1000 - 1,500 psi
Shore D Hardness (ASTM D-2240)	85-90
Coefficient of Thermal Expansion (ASTM C-531)	12 - 14 x 10 ⁻⁶ in/in/°F
Color	Gray

PACKAGING & STORAGE

CC-2001 is supplied as a two (2)-component product, with Resin and Hardener paste components. CC-2001 Resin (Part A) is packaged in one gallon cans; CC-2001 Hardener (Part B) is packaged in one-half gallon cans.

Unit Size One & One half Gallons

Resin One (1) gallon can

Hardener One (1/2) gallon can

Shelf life for CC-2001 components is 12-18 months. Keep CC-2001 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

One 1-1/2 gallon unit of CC-2001 covers approximately 10 ft² at a nominal 1/4" thickness. This is an estimated coverage rate and does not allow for waste, thickness variations, or other contingencies.

JOB SITE ENVIRONMENTAL CONDITIONS

CC-2001 is best applied while ambient temperatures are between 50°F and 90°F. CC-2001 components and substrate temperatures must also be maintained in this range. Installations of CC-2001 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-2001 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-2001.

SAFETY PRECAUTIONS

CC-2001 Resin, Hardener, and mixes of them present various health hazards if handled improperly. CC-2001 Resin will cause eye injury and irritate skin and CC-2001 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-2001, wash thoroughly before eating, drinking, smoking or other activities.

APPLICATION EQUIPMENT

CC-2001 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-2001 is applied with a pointing or margin trowel.

MIXING AND APPLICATION

CC-2001 is mixed at a 2:1 ratio by volume. Mix together 2:1 volumes of Resin (Part A) and Hardener (Part B) respectively, and blend thoroughly for 1-3 minutes. The components have slightly contrasting colors; mix these two parts 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 ¼" 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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Supersedes all previous literature