

**Blome CC-1000**  
**Epoxy Adhesive / Mortar**

**PRODUCT DESCRIPTION**

Blome CC-1000 is a two-part, epoxy adhesive/mortar used for the installation of abrasion resistant brick and tile linings. CC-1000 is designed for bonding alumina ceramic and basalt tile in lining applications requiring resistance to abrasion and erosion, as well as acids, bleaches, alkalis, solvents and other corrosive chemicals. CC-1000 is especially suited for use in wear tile applications requiring high bond strength, physical properties and good chemical resistance. Blome CC-1000 is resistant to caustic solutions, most dilute acids, hypochlorite bleaches and other chemicals.

**TYPICAL USES**

Blome CC-1000 is suitable for bonding brick and tile to concrete and steel substrates in a variety of applications including:

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

**HANDLING CHARACTERISTICS**

Blome CC-1000 offers excellent trowelling and handling characteristics, with sufficient body and thixotropy to butter brick in place and secure them from slipping or sliding while the mortar cures. CC-1000 cures rapidly and provides an excellent bond to brick, tile and steel. This unique formulation produces excellent results while installing brick in horizontal, vertical and even overhead areas.

**TYPICAL PROPERTIES**

**WET**

Components: Two (2) - Resin & Hardener

Wet mortar density: 11 lbs. per gallon

Mixed consistency: Creamy mortar

Pot life: 50°F 60 minutes

77°F 30 - 40 minutes

Initial set: 50°F 6 - 8 hours

77°F 2 - 4 hours

Final cure 50°F 7 days minimum

77°F 5 days minimum

**CURED**

|   |                                     |
|---|-------------------------------------|
| Absorption (ASTM C-413)                       | 0.24%                               |
| Bond Strength (Positester AT)                 | 2,700 - 3,200 psi                   |
| Coefficient of Thermal Expansion (ASTM C-531) | 12 - 14 x 10 <sup>-6</sup> in/in/°F |
| Color   | Off White                           |
| Compressive Strength (ASTM C-579)             | 10,500 psi                          |
| Tensile Strength (ASTM C-307)                 | 3,600 - 4,100 psi                   |

**PACKAGING & STORAGE**

Blome CC-1000 is supplied as a two (2)-component product, with Resin and Hardener paste components. CC-1000 Resin (Part A) is packaged in one gallon cans; CC-1000 Hardener (Part B) is also packaged in one gallon cans.

|           |                    |
|-----------|--------------------|
| Unit Size | Two (2) gallons    |
| Resin     | One (1) gallon can |
| Hardener  | One (1) gallon can |

Shelf life for CC-1000 components is 12-18 months. Keep CC-1000 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 two-gallon unit of CC-1000 covers approximately 14 ft<sup>2</sup> of tile lining when used as a setting bed for tile with a nominal 1/16” joint thickness between the tile. This is an estimated coverage rate and does not allow for waste, bed or side joint variations, or other job site contingencies.

**BID SPECIFICATION GUIDE**

Use Blome CC-1000 Epoxy Adhesive/Mortar as manufactured by Blome International, O’Fallon, MO.

**JOB SITE ENVIRONMENTAL CONDITIONS**

Blome CC-1000 is best applied while ambient temperatures are between 50°F and 90°F. Blome CC-1000 components, brick, tile and substrate temperatures must also be maintained in this range. Installations of CC-1000 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 Blome CC-1000 will be applied must have a minimum 28 day cure or 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 CP-83HT bed joint.

Brick and tile to be installed with Blome CC-1000 must be clean, dry and oil free. If brick or tile has been frozen, they must be thawed completely and allowed to dry prior to installation with Blome CC-1000.

## **SAFETY PRECAUTIONS**

Blome CC-1000 Resin, Hardener, and mixes of them present various health hazards if handled improperly. CC-1000 Resin will cause eye injury and irritate skin and CC-1000 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 Blome CC-1000, wash thoroughly before eating, drinking, smoking or other activities.

## **APPLICATION EQUIPMENT**

Blome CC-1000 is best mixed with a trowel or mixing stick. It may also be mixed with a KOL, pail type mixer or in a pail using a drill motor driven paddle blade. This mixing equipment must be clean, dry and free of any contaminants including Portland Cement, other mortars or resins. When mixed, CC-1000 is applied to brick and substrate with a pointing or margin trowel.

## **MIXING AND APPLICATION**

CC-1000 is mixed at a 1:1 ratio by volume. Mix together equal volumes of Resin (Part A) and Hardener (Part B) and blend thoroughly for 1-2 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.

Place brick or tile in wet adhesive mortar in accordance with project specification. When laying brick, use a clean, dry pointing or margin trowel, butter brick or tile evenly on 4 or 5 sides. Slide buttered brick or tile into place, squeezing excess mortar from joints. Strike off excess mortar & remove. Joint thickness should be nominally 1/16".

## **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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