

**Blome CC-1002  
Toughened Epoxy Adhesive / Mortar**

**PRODUCT DESCRIPTION**

Blome CC-1002 is a two part, toughened, epoxy adhesive/mortar used for the installation of high performance, abrasion and chemical resistant brick and tile lining systems. Blome CC-1002 is specifically designed for bonding alumina ceramic tile, fully vitrified ceramic, AZS and basalt tile in lining applications requiring resistance to abrasion and erosion, as well as acids, bleaches, alkalis, solvents and other corrosive chemicals. CC-1002 is especially suited for use in lining applications exposed to vibration or flexing. Blome CC-1002 exhibits superior toughness and flexibility combined with high bond strength, physical properties and good chemical resistance. Blome CC-1002 is resistant to caustic solutions, most dilute acids, hypochlorite bleaches and other chemicals.

**TYPICAL USES**

Blome CC-1002 is suitable for bonding brick and tile to concrete and steel substrates in a variety of applications including:

- Steel Chutes and Hoppers
- Ball Mills and Classifier Cones
- Bonding Ceramic Tile to Steel

**HANDLING CHARACTERISTICS**

Blome CC-1002 exhibits excellent handling characteristics, with sufficient body and thixotropy to butter brick in place and secure them from slipping or sliding while the mortar cures. CC-1002 cures rapidly and provides an excellent bond to brick and tile. 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 40 minutes
Initial set:	50°F 4 - 6 hours 77°F 2 - 3 hours
Final cure	50°F 7 days minimum 77°F 5 days minimum

## CURED

Absorption (ASTM C-413)	0.24%
Bond Strength (Positester AT)	2,850 - 3,400 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-1002 is supplied as a two (2)-component product, with Resin and Hardener paste components. CC-1002 Resin (Part A) is packaged in one and one half gallon cans; CC-1002 Hardener (Part B) is also packaged in one half gallon cans.

Unit Size	Two (2) gallons
Resin	One (1.5) gallon can
Hardener	One (1/2) gallon can

Shelf life for CC-1002 components is 12-18 months. Keep CC-1002 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-1002 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-1002 Toughened Epoxy Adhesive/Mortar as manufactured by Blome International, O'Fallon, MO.

## JOB SITE ENVIRONMENTAL CONDITIONS

Blome CC-1002 is best applied while ambient temperatures are between 50°F and 90°F. Blome CC-1002 components, brick, tile and substrate temperatures must also be maintained in this range. Installations of CC-1002 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 CP-83HT 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-1002 bed joint.

Brick and tile to be installed with Blome CC-1002 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-1002.

## **SAFETY PRECAUTIONS**

Blome CC-1002 Resin, Hardener, and mixes of them present various health hazards if handled improperly. CC-1002 Resin will cause eye injury and irritate skin and CC-1002 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-1002, wash thoroughly before eating, drinking, smoking or other activities.

## **APPLICATION EQUIPMENT**

Blome CC-1002 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-1002 is applied to brick and substrate with a pointing or margin trowel.

## **MIXING AND APPLICATION**

CC-1002 is mixed at a 3:1 ratio by volume. Mix together Resin (Part A) and Hardener (Part B) and blend thoroughly for 1-2 minutes. The components have 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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Supersedes all previous literature