

Surrounding You with Exceptional Protection



Blome CP-83HT High Temperature Epoxy Adhesive

PRODUCT DESCRIPTION

Blome CP-83HT is a two-part, high temperature, epoxy adhesive used for the installation of abrasion resistant brick and tile linings. CP-83HT 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. CP-83HT is especially suited for use in high temperature wear tile lining applications requiring high bond strength and physical properties at higher operating temperatures (350°F - 400°F). Blome CP-83HT is resistant to most caustic solutions, dilute mineral acids, hypochlorite bleaches and other harsh chemicals. The material is also well suited for use as a concrete repair putty for filling form voids, crack repair and other concrete applications requiring high physical properties.

TYPICAL USES

Blome CP-83HT is suitable for bonding brick, tile and concrete in a variety of high temperature lining applications including: Chutes, Hoppers and Troughs Slurry Pipe Linings Pulverizers, Ball Mills and Classifier Cones Concrete Crack Repair and Form Void Filling

HANDLING CHARACTERISTICS

CP-83HT 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. CP-83HT 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 & HardenerWet mortar density:11 lbs. per gallonMixed consistency:Creamy mortarPot life:50°F 60 minutes77°F 30 - 40 minutesInitial set:50°F 4 - 6 hoursFinal cure50°F 7 days minimum77°F 5 days minimum

CURED	
	Temperature Resistance 350°F (excursions to 400°F) Absorption (ASTM C-413) 0.21%
	Bond Strength to Ceramic Tile (Positester AT) 2,700 - 3,100 psi
	Color Light Gray
	Compressive Strength (ASTM C-579) 11,220 psi
	Coefficient of Thermal Expansion (ASTM C-307) 3,600 - 4,100 psi
PACKAGING & STORAGE	Blome CP-83HT is supplied as a two (2)-component product, with Resin and Hardener paste components. CP-83HT Resin (Part A) is packaged in one gallon cans, CP-83HT 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 CP-83HT components is 12-18 months. Keep CP-83HT 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 $50^{\circ}F - 80^{\circ}F$.
ESTIMATED COVERAGE	
	One two-gallon unit of CP-83HT covers approximately 14 ft ² 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 CP-83HT High Temperature Epoxy Adhesive as supplied by Blome International, O'Fallon, MO.
JOB SITE ENVIRONMENTAL CONDITIONS	
	Blome CP-83HT is best applied while ambient temperatures are between 50°F and 90°F. Blome CP-83HT components, brick, tile and substrate temperatures must also be maintained in this range. Installations of CP-83HT 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 CP-83HT bed joint.
	Brick and tile to be installed with Blome CP-83HT 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 CP-83HT. Liquid or Sheet applied membrane surfaces should be clean and dry prior to installation of Blome CP-83HT bed joint. These surfaces should be swept clean and be free of dirt, dust, water or other jobsite contaminants.

Blome CP-83HT Resin, Hardener, and mixes of them present various health hazards if handled improperly. CP-83HT Resin will cause eye injury and irritate skin and CP-83HT 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 CP-83HT, wash thoroughly before eating, drinking, smoking or other activities.

APPLICATION EQUIPMENT

Blome CP-83HT 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, CP-83HT is applied to brick and substrate with a pointing or margin trowel.

MIXING AND APPLICATION

CP-83HT 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 detergent or 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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