



CP-99 Two-Component Novolac Epoxy Grout

PRODUCT DESCRIPTION

Blome CP-99 is a two-component, high performance Novolac epoxy grout used for the installation of chemical resistant dairy brick and tile flooring using the tilesetter's method. CP-99 is designed for grouting dairy brick and tile in floor, cove and trench applications requiring resistance to harsh caustic cleaning solutions, strong acids, hypochlorite bleaches and various CIP chemicals. Blome CP-99 exhibits excellent resistance to strong acids including 98% sulfuric, 37% hydrochloric, 30% nitric, as well as many aggressive CIP chemicals including 15% sodium hypochlorite and phosphoric acid. CP-99 withstands high pressure water cleaning at temperatures up to 212°F. CP-99 also provides superior bond strength to dairy brick and tile, along with high physical properties, and is well suited for applications exposed to traffic and physical abuse.

TYPICAL USES

Blome CP-99 is suitable for grouting dairy brick, acid brick and tile in a variety of applications including:

- Dairy brick flooring
- Brick and tile cove base
- Acid brick and quarry tile flooring

HANDLING CHARACTERISTICS

Blome CP-99 is specially designed to have excellent flow characteristics and a rapid cure once grouted into place. This results in a combination of high quality tile and brickwork, and high production rates. CP-99 cures rapidly and provides an excellent bond to brick and tile.

TYPICAL PROPERTIES

WET

Components	Two (2) Resin & Hardener
Wet mortar density	109 lbs./ft ³
Mixed consistency	Flowable grout
Pot life	50°F 55 minutes 77°F 35 minutes
Initial set	50°F 14 hours 77°F 6 hours
Final cure	50°F 7 days minimum 77°F 5 days minimum

CURED

Blome CP-99 complies with ASTM C-395		
Absorption (ASTM C-413)		less than 0.2%
Bond Strength to brick (ASTM C-321)		brick failure
Coefficient of Thermal Expansion (ASTM C-531)		12 - 14 x 10 ⁻⁶ in/in/°F
Color		Black or Gray
Compressive Strength (ASTM C-579)		12,500 psi
Flexural Strength (ASTM C-580)		4,150 psi
Tensile Strength (ASTM C-307)		2,820 psi

PACKAGING & STORAGE

Blome CP-99 is supplied as a two (2) component product, with a Resin and Hardener. CP-99 Resin (Part A) is packaged in one gallon cans, CP-99 Hardener (Part B) is supplied as a premixed blend of colored sand and liquid hardener in a pail. The components are mixed before use in full units to a flowable grout consistency.

Unit Size	40.0 lbs.
Resin	8.16 lbs. (1 x 1 gallon can)
Hardener	31.84 lbs. (1 x 5 gallon pail)

Shelf life for CP-99 components is one (1) year. Keep CP-99 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.

BID SPECIFICATION GUIDE

Use Blome CP-99 Two-Component Novolac Epoxy Grout as manufactured by Blome International, O'Fallon, MO.

ESTIMATED COVERAGE

Please refer to Blome Brick Mortar Usage Chart in Chemical Proofing Section of Blome International Catalog. This chart gives estimated coverage rates and does not allow for waste, joint variations or other job site contingencies.

JOB SITE ENVIRONMENTAL CONDITIONS

Blome CP-99 must be applied while ambient temperatures are between 50°F and 90°F. Blome CP-99 components, brick, tile and substrate temperatures must also be maintained in this range. Blome CP-99LTC Hardener is available for use in low temperatures. CP-99LTC Low Temperature Cure Hardener will cure at temperatures as low as 40°F. Installations of CP-99 should be protected from weather during installation and curing.

SURFACE PREPARATION

Blome CP-99 is designed for use with waxed brick or tile. If waxing of brick or tile is done at job site, care should be taken to keep wax off of brick or tile edges as this will prevent grout from bonding and result in loose grout joints. Brick and tile to be installed with Blome CP-99 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-99. Open joints of brickwork to be grouted should be clean and dry prior to installation of Blome CP-99. Open joints in brickwork in these areas should be swept or vacuumed clean and be free of dirt, dust, water or other job site contaminants.

SAFETY PRECAUTIONS

Blome CP-99 Resin, Hardener, and mixes of them present various health hazards if handled improperly. CP-99 Resin will cause eye injury and irritate skin and CP-99 Hardener is a corrosive liquid paste. Wear safety glasses with side shields, gloves and long sleeve shirts to prevent all contact with skin and eyes. After working with Blome CP-99, wash thoroughly before eating, drinking, smoking or other activities.

APPLICATION EQUIPMENT

Blome CP-99 is best 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 grouts, resins, etc. When mixed, CP-99 is grouted into place using a "Groutmaster" type rubber float or a steel finishing trowel.

MIXING AND APPLICATION

Mix together one gallon can of Resin (Part A) and one pail of Hardener (Part B) and blend thoroughly for 1-2 minutes. Mix components using a clean, dry mechanical mixer or trowel for a minimum of 1-2 minutes, making sure there are no lumps, thick or thin pockets of grout.

Pour mixed grout onto area to be grouted. Spread grout into open joints of tile or brickwork, starting at the lowest areas, making sure grout joints are completely full and then working to the highest areas. Using a "Groutmaster" type rubber float or a steel, finishing trowel, work grout into joints and strike excess grout from brick faces in a squeegee fashion. Be certain to pass over joints on a 45° angle, as to not disturb grout that has already flowed into joints.

In some instances, a second grout pass will be required to fill low spots and achieve even, full grout joints. This second grout pass should be applied within 24 hours of first grout pass to assure proper adhesion between passes. Allow grout in completed tile or brickwork to cure for three (3) days minimum prior to high-pressure steam removal of wax from brick or tile faces.

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.