



CP-39

Two Component Water Washable Epoxy Grout

PRODUCT DESCRIPTION

Blome CP-39 is a two component, water washable epoxy grout used for the installation of chemical resistant dairy brick and tile flooring using the tiler's method. CP-39 is designed for grouting dairy brick and tile in floor, cove and trench applications requiring resistance to caustic cleaning solutions, dilute acids, hypochlorite bleaches and dilute CIP chemicals. Blome CP-39 exhibits superior bond strength to dairy brick along with high physical properties and is well suited for applications exposed to traffic and physical abuse.

TYPICAL USES

Blome CP-39 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 Tile Flooring
- Brick lined trenches and sumps

HANDLING CHARACTERISTICS

Blome CP-39 is specially designed to have excellent flow characteristics and excellent water cleanability. This results in a combination of high quality tile and brickwork and high production rates. CP-39 cures to provide an excellent bond to brick and tile. This combination of handling, cleaning and curing properties makes Blome CP-39 the ideal epoxy grout for dairy brick and tile flooring installations for the dairy, food and beverage industries.

TYPICAL PROPERTIES

WET

Components:	Two (2) – Resin & Hardener
Wet mortar density:	109 lbs./ft ³
Mixed consistency:	Flowable grout
Pot life:	50°F 90 minutes 77°F 50 minutes
Initial set:	50°F 24 hours 77°F 12 hours
Final cure	50°F 10 days minimum 77°F 7 days minimum

CURED

Blome CP-39 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, gray, red
Compressive Strength (ASTM C-579)	9,310 psi
Flexural Strength (ASTM C-580)	4,150 psi
Tensile Strength (ASTM C-307)	2,185 psi

PACKAGING & STORAGE

Blome CP-39 is supplied as a two (2) component product, with a Resin and Hardener. CP-39 Resin (Part A) and Hardener (Part B) are packaged in pre-measured units with a combined unit weight of 40 lbs. net.

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

Shelf life for CP-39 components is one (1) year. Keep CP-39 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. Protect Blome CP-39 components from water and weather while in storage and on job site.

BID SPECIFICATION GUIDE

Use Blome CP-39 Two Component Water Washable 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 jobsite contingencies.

JOB SITE ENVIRONMENTAL CONDITIONS

Blome CP-39 must be applied while ambient temperatures are between 50°F and 90°F. Blome CP-39 components, brick, tile and substrate temperatures must also be maintained in this range. Blome CP-39LTC Hardener is available for use in low temperatures. CP-39LTC Low Temperature Cure Hardener will cure at temperatures as low as 40°F. Installations of CP-39 should be protected from weather during installation and curing.

SURFACE PREPARATION

Brick and tile to be installed with Blome CP-39 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-39. Open joints of brickwork to be grouted should be clean and dry prior to installation of Blome CP-39. Open joints in brickwork in these areas should be swept or vacuumed clean and be free of dirt, dust, water or other jobsite contaminants.

SAFETY PRECAUTIONS

Blome CP-39 Resin, Hardener and mixes of them present various health hazards if handled improperly. CP-39 Resin will cause eye injury and irritate skin and CP-39 Hardener is 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-39, wash thoroughly before eating, drinking, smoking or other activities.

APPLICATION EQUIPMENT

Blome CP-39 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-39 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 so 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.

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.