

## CP-96C

# Carbon Filled Novolac Epoxy Mortar/Grout

### PRODUCT DESCRIPTION

Blome CP-96C is a three-component, carbon filled, Novolac epoxy tile grout used for the installation of dairy brick, quarry and vitrified tile flooring. CP-96C exhibits superior chemical resistance when compared to other Novolac Grouts, particularly to harsh CIP chemicals such as hypochlorite bleaches, nitric acid up to 40%, phosphoric acid, sodium hydroxide and other strong oxidizing solutions. CP-96C withstands high pressure water cleaning at temperatures up to 212°F. CP-96C also provides superior bond strength to dairy brick and tile, along with high physical properties. Repair or regrouting installations of CP-96C may be water washed during installation, providing washing is done within 10-15 minutes. For larger installations, waxing of brick or tile is recommended.

### TYPICAL USES

Blome CP-96C is suitable for grouting dairy brick, acid brick and vitrified tile in a variety of applications including:

- Dairy Brick Flooring
- Vitrified Tile Flooring
- Brick and Tile Cove Base & Curbing

### HANDLING CHARACTERISTICS

Blome CP-96C is specially designed to have excellent grouting and flow characteristics along with a rapid cure once grouted into place. This results in a combination of high quality tile and brickwork, and high production rates. CP-96C cures rapidly and provides an excellent bond to brick and tile.

### TYPICAL PROPERTIES WET

Components	Three (3) – Resin, Hardener & Powder
Wet mortar density	95 lbs./ft <sup>3</sup>
Mixed consistency	Flowable grout
Pot life	50°F 35 minutes
	77°F 22 minutes
Initial set	50°F 8 hours
	77°F 4 hours
Final cure	50°F 7 days minimum
	77°F 5 days minimum

### CURED

Blome CP-96C 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 <sup>-6</sup> in/in/°F
Color	Black
Compressive Strength (ASTM C-579)	13,300 psi
Flexural Strength (ASTM C-580)	4,150 psi
Tensile Strength (ASTM C-307)	2,820 psi

## PACKAGING & STORAGE

Blome CP-96C is supplied as a three (3) component product, with a Resin, Hardener and Filler powder. CP-96C Resin (Part A) is packaged in one gallon cans, CP-96C Hardener (Part B) is packaged in one quart cans and CP-96C Filler powder (Part C) is packaged in 22 lb. bags.

Unit Size	37.2 lbs.
Resin	9.6 lbs. (1 x 1 gallon can)
Hardener	1.6 lbs. (1 x 1 quart can)
Filler powder	22 lbs. (1 bag)

Shelf life for CP-96C components is one (1) year. Keep CP-96C 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 bags of CP-96C Powder from water and weather.

## BID SPECIFICATION GUIDE

Use Blome CP-96C High Performance, Carbon Filled Novolac Epoxy Mortar/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-96C must be applied while ambient temperatures are between 50°F and 90°F. Blome CP-96C components, brick, tile and substrate temperatures must also be maintained in this range. Installations of CP-96C should be protected from weather during installation and curing.

## SURFACE PREPARATION

While Blome CP-96C can be water washed for repair or regrouting projects, it is recommended to use with waxed brick or tile, particularly for larger, new installations. 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-96C 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-96C. Open joints of brickwork to be grouted should be clean and dry prior to installation of Blome CP-96C. 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-96C Resin, Hardener, Filler, and mixes of them present various health hazards if handled improperly. CP-96C Powder contains carbon dust, CP-96C Resin will cause eye injury and irritate skin and CP-96C Hardener is a corrosive liquid. Wear respirator suitable for carbon dust, safety glasses with side shields, gloves and long sleeve shirts to prevent

all contact with skin and eyes. After working with Blome CP-96C, wash thoroughly before eating, drinking, smoking or other activities.

## **APPLICATION EQUIPMENT**

Blome CP-96C 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-96C is grouted into place using a "Groutmaster" type rubber float or a steel trowel.

## **MIXING AND APPLICATION**

Mix together the contents of one 9.6 lb. can of Resin (Part A) and one 1.6 lb. can of Hardener (Part B) and blend thoroughly for 1-2 minutes. To this mixture, add one bag (22 lbs.) of Filler powder (Part C), and mix to a uniform grout consistency. Mix components using a clean, dry mechanical mixer or trowel for a minimum of 1-2 minutes, making sure there are no lumps or dry pockets of powder. The amount of powder may be adjusted, up or down, to achieve desired consistency for specific uses. More powder will produce a thicker consistency for some vertical applications such as cove base.

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 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.

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