

CP-36 Epoxy Mortar / Setting Bed

PRODUCT DESCRIPTION

Blome CP-36 is a three-component, epoxy mortar/setting bed used for the installation of chemical resistant brick and tile. CP-36 is designed for bonding acid brick and tile in tank, floor and trench applications requiring resistance to acids, bleaches, alkalis, solvents and other corrosive chemicals. CP-36 is especially suited for use in dairy and food plant dairy applications requiring sanitary flooring with good chemical resistance. Blome CP-36 is resistant to caustic cleaning solutions, acids, hypochlorite bleaches and other harsh cleaning compounds. The material exhibits excellent bond strength to concrete, acid brick and tile and is well suited for applications requiring high physical properties.

TYPICAL USES

Blome CP-36 is suitable for bonding chemical and abrasion resistant masonry units in a variety of applications including:

- Direct bond dairy brick flooring
- Acid brick and tile flooring
- Acid brick lined trenches and sumps
- Abrasion resistant tile linings in moderate chemical service

HANDLING CHARACTERISTICS

Blome CP-36 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-36 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:	Three (3) - Resin, Hardener & Powder
Wet mortar density:	109 lbs./ft ³
Mixed consistency:	Creamy mortar
Pot life:	50°F 50 minutes 77°F 24 minutes
Initial set:	50°F 6 - 8 hours 77°F 2 - 4 hours
Final cure	50°F 7 days minimum 77°F 5 days minimum

CURED

Blome CP-36 complies with ASTM C-395	
Absorption (ASTM C-413)	0.24%
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	red
Compressive Strength (ASTM C-579)	9,650 psi
Tensile Strength (ASTM C-307)	3,300 psi

PACKAGING & STORAGE

Blome CP-36 is supplied as a three (3) component product, with a Resin, Hardener and Filler powder. CP-36 Resin (Part A) is packaged in short filled, one gallon cans, CP-36 Hardener (Part B) is packaged in short filled, one quart cans and CP-36 Filler powder (Part C) is packaged in 50 lb. bags.

Unit Size	66.8 lbs.
Resin	14.0 lbs. (2 x 7.0 lb. cans)
Hardener	2.8 lbs. (2 x 1.4 lb. cans)
Filler powder	50 lbs. (1 bag)

Shelf life for CP-36 components is one (1) year. Keep CP-36 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-36 Powder from water and weather while in storage and on job site.

ESTIMATED COVERAGE

One 66.8 lb. unit of CP-36 covers approximately 60 ft² at 1/8" thickness when used as a setting bed on concrete substrates. This is based on a nominal 1/8" bed joint thickness. This includes sufficient material for bed joint only. This is an estimated coverage rate and does not allow for waste, bed joint variation or other job site contingencies.

BID SPECIFICATION GUIDE

Use Blome CP-36 Epoxy Mortar/Setting Bed as manufactured by Blome International, O'Fallon, MO.

JOB SITE ENVIRONMENTAL CONDITIONS

Blome CP-36 must be applied while ambient temperatures are between 50°F and 90°F. Blome CP-36 components, brick, tile and substrate temperatures must also be maintained in this range. Blome CP-36LTC Hardener is available for use in low temperatures. CP-36LTC Low Temperature Cure Hardener will cure at temperatures as low as 40°F. Installations of CP-36 should be protected from water and weather during installation and curing.

SURFACE PREPARATION

Concrete must be adequately cured, structurally sound and dry. It must be free of dirt and contaminants and all defects should be repaired. All loose coatings must be removed. Concrete must be dry in accordance with ASTM D 4263 Plastic Sheet Test Method. Concrete surfaces must be free of all laitance, oil, curing compounds, and any dust or other loose materials prior to installation of materials. Concrete must be etched or roughened by abrasive blasting, shot blasting, grinding or in some instances, it may be acid etched. Check with Blome International for optional recommendations.

Brick and tile to be installed with Blome CP-36 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-36. Liquid or Sheet applied membrane surfaces should be clean and dry prior to installation of Blome CP-36 bed joint. These surfaces should be swept clean and be free of dirt, dust, water or other jobsite contaminants.

SAFETY PRECAUTIONS

Blome CP-36 Resin, Hardener, Filler, and mixes of them present various health hazards if handled improperly. CP-36 Powder contains silica dust, CP-36 Resin will cause eye injury and irritate skin and CP-36 Hardener is a corrosive liquid. Wear respirator suitable for silica dust, safety glasses with side shields, gloves and long sleeve shirts to prevent all contact with skin and eyes. After working with Blome CP-36, wash thoroughly before eating, drinking, smoking or other activities.

APPLICATION EQUIPMENT

Blome CP-36 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 mortars or resins. When mixed, CP-36 is applied to brick and substrate with a pointing or margin trowel.

MIXING AND APPLICATION

Mix together one 7.0 lb. can Resin (Part A) and one 1.4 lb. can Hardener (Part B) and blend thoroughly for 1-2 minutes. To this mixture, add approximately one half (1/2) bag Filler powder (Part C), and mix to a uniform mortar 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 mortar consistency for some vertical or overhead applications.

When applied as a setting bed for direct bond installations, trowel mixed material to a nominal 1/8" thickness onto concrete substrate. Place brick or tile in wet setting bed 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 and remove. Joint thickness should be 1/8" to 1/4".

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.

Revision: June 20, 2020