BLOME INTERNATIONAL

Surrounding You with Exceptional Protection

CHEMICAL PROOFING SYSTEMS

CP-37MT
Epoxy Setting Bed

PRODUCT DESCRIPTION

Blome CP-37MT is a two-component, epoxy setting bed used for the installation of chemically resistant brick and tile. CP-37MT is designed for bonding dairy brick and tile to concrete in various floor and trench applications requiring resistance to acids, bleaches, alkalis, solvents and other corrosive chemicals. CP-37MT is especially suited for use in dairy and food plant applications requiring sanitary flooring with good chemical resistance. Blome CP-37MT is resistant to caustic cleaning solutions, acid sanitizers, hypochlorite bleaches and other harsh cleaning compounds. The material exhibits excellent bond strength to concrete, dairy brick and tile and is well suited for applications requiring high physical properties.

TYPICAL USES

Blome CP-37MT is suitable for bonding chemically resistant dairy brick and tile in a variety of applications including:

- Direct bond dairy brick flooring
- Acid brick and tile flooring
- Acid brick lined trenches and sumps

HANDLING CHARACTERISTICS

Blome CP-37MT offers excellent troweling and handling characteristics and develops high bond strength to concrete substrates. CP-37MT cures rapidly and also provides an excellent bond to brick and tile. This unique formulation produces excellent results while installing brick or tile on fully cured or damp concrete substrates.

TYPICAL PROPERTIES

WET

Components:	Two (2) - Resin & Hardener (filled)
Wet mortar density:	109 lbs./ft^3
Mixed consistency:	mortar
Pot life:	50°F 50 minutes
	77°F 24 minutes
Initial set:	50°F 10 - 12 hours
	77°F 6 - 8 hours
Final cure	50°F 7 days minimum
	77°F 5 days minimum

CURED

Blome CP-37MT 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	Tan/natural
Compressive Strength (ASTM C-579)	9,100 psi
Tensile Strength (ASTM C-307)	3,000 psi

PACKAGING & STORAGE

Blome CP-37MT is supplied as a two (2) component product, with a Resin and Hardener (filler is pre-blended into hardener). CP-37MT Resin (Part A) is packaged in one-gallon cans, CP-37MT Hardener (Part B) is packaged in the bottom of a five gallon pail in which the two parts are mixed.

Unit Size	53.0 lbs.
Resin	10.0 lbs. (1 x 10.0 lb. cans)
Hardener	43.0 lbs. (hardener & filler mixed)

Shelf life for CP-37MT components is one (1) year. Keep CP-37MT 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.

ESTIMATED COVERAGE

One 53 lb. unit of CP-37MT covers approximately 48 ft^2 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-37MT Epoxy Setting Bed as manufactured by Blome International, O'Fallon, MO.

JOB SITE ENVIRONMENTAL CONDITIONS

Blome CP-37MT must be applied while ambient temperatures are between 50°F and 90°F. Blome CP-37MT components, brick, tile and substrate temperatures must also be maintained in this range. Blome CP-37MTLTC Hardener is available for use in low temperatures. CP-37MTLTC Low Temperature Cure Hardener will cure at temperatures as low as 40°F. Installations of CP-37MT should be protected from water and weather during installation and curing.

SURFACE PREPARATION

Concrete substrates to which Blome CP-37MT 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 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 CP-37MT bed joint.

Brick and tile to be installed with Blome CP-37MT 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-37MT. Liquid or Sheet applied membrane surfaces should be clean and dry prior to installation of Blome CP-37MT bed joint. These surfaces should be swept clean and be free of dirt, dust, water or other jobsite contaminants.

SAFETY PRECAUTIONS

Blome CP-37MT Resin and Hardener, and mixes of them, present various health hazards if handled improperly. Read Safety Data Sheets before handling.

APPLICATION EQUIPMENT

Blome CP-37MT is best mixed with a KOL, pail type mixer or in the 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-37MT is applied to brick, tile and substrate with a pointing or margin trowel.

MIXING AND APPLICATION

Mix together one 10.0 lb. can Resin (Part A) and one 43 lb. pail of Hardener (Part B) and blend thoroughly for 1-2 minutes. Simply pour the 10.0 lb. can of Resin into the pail of Hardener and mix components in pail. 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.

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 ¼".

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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