CP-85
Epoxy Concrete Repair Kit

PRODUCT DESCRIPTION

Blome CP-85 is a 100% solids, three-component epoxy concrete repair system. CP-85 is conveniently packaged in pre-measured kits that yield approximately 0.28 cubic feet. CP-85 exhibits excellent adhesion to concrete substrates, rapid cure and outstanding physical properties. The material is ideally suited for repairing concrete floors, stairs, column bases, pads, curbing and other structures exposed to regular traffic, mechanical abuse or corrosive chemicals. An economical polymer concrete is made by the addition of ¼" pea gravel along with filler powder as supplied.

GENERAL USES

CP-85 is recommended for a wide variety of applications including:
Concrete floor repair
Casting of equipment footings
Patching concrete surfaces
Filling low spots on concrete slabs

PACKAGING AND COVERAGE

CP-85 is packaged in convenient pre-measured kits. The mix ratio of resin to hardener is 5 Parts A to 1 Part B by volume and the aggregate addition can be varied to meet the application needs of each project. Each pre-measured kit yields approximately 0.28 cubic feet. Contact your Blome International Representative for assistance estimating material requirements for your particular project.

TYPICAL PROPERTIES OF AGGREGATE FILLED CP-85

Compressive Strength:16,000 psi

Tensile Strength:9,700 psi

Flexural Strength:5,650 psi

Shore D hardness:75-85

Coefficient of thermal expansion:14-16 X 10-6 in/in/F

Solids by Volume:100%

Weight per Mixed Gallon:9.5 lbs

Pot Life @ 70F:30-40 minutes

Set firm @ 70F:4-6 hrs

Chemical service @ 70F:36 hrs

Color:Gray

STORAGE

Keep CP-85 components tightly sealed in their original containers until ready for use. Store at 70 – 75F to facilitate handling and workability. Properly stored, CP-85 has a minimum shelf life of 12 months.

SURFACE PREPARATION
CONCRETE

Concrete should be adequately cured, possess adequate integrity and not be expelling excess water of hydration. A rule of thumb for cure of new concrete is 28 days cure at 70°F but that is not an assurance that the concrete has achieved adequate physical properties. Concrete should exhibit a compressive strength of 3,000 psi minimum and tensile strength of 300 psi or higher.

Ground slabs and new concrete should be tested for excess moisture in accordance with ASTM D 4263 Plastic Sheet Test Method; any water on the backside of the sheet after overnight exposure will require additional curing before a coating can be applied.

We recommend utilization of a low water-cement ratio, preferably 0.38 and adequate superplasticizers for placement are recommended, particularly when cure time to coat is critical.

New concrete must also be free of curing compounds, form release agents and any other contamination that might inhibit adhesion.
Old concrete must be free of existing coatings or toppings and any loose or unsound concrete must be removed.

All concrete must be cleaned, as necessary, in accordance with ASTM D 4258. The resultant surface should be free of all oil, grease, and other contamination. Consult Blome International for special procedures for oil contaminated surfaces.

Upon completion of cleaning, the concrete surface shall be prepared in accordance with ASTM D4259. The resultant surface should be free of laitance and efflorescence and have a surface texture similar to medium (60-80 grit sandpaper).

STEEL

Incidental steel surfaces to which CP-85 is to be applied should be abrasive blasted to a near white finish with an anchor profile of 2-3 mils. Steel surfaces intended for immersion service must be abrasive blasted to a white metal finish with a 3-4 mil anchor profile.

MASKING & PROTECTION

Mask or remove adjacent surfaces and equipment that are not to be coated and mask all termination points.

MIXING TECHNIQUE

We recommend using Jiffy type mixers for all mixing and stirring. When operating the mixer, avoid plunging it up and down in the bucket. This can fold air into the resin, which may cause bubbles to form in the material coating after it has been placed. Be especially careful not to allow water to enter the mix.

WORKING TIME

The working time for Blome CP-85 is 30-40 minutes at 70°F. Working time will be longer at cooler temperatures and will be much shorter at higher temperatures.

MIXING & APPLICATION

1. Mix together the contents of Resin (Part A) & Hardener (Part B) cans and thoroughly mix for 2-3 minutes.

2. If using neat resin as a primer or sealer, apply by brush, squeegee or roller to the substrate to be repaired.

3. Add aggregate to resin/hardener mixture and mix thoroughly using a paddle type, drill mixer or in a fixed arm mixer such as a KOL mixer until aggregate is wet out completely. Then place material as required for repair.

TOUCH-UP & RECOATING

Blome CP-85 may be recoated with itself or other Blome epoxy and epoxy novolac coatings and toppings within 24 hours without special surface preparation. Provided that the temperature during the curing has not exceeded 90F and has not been exposed to direct sunlight for more than 8 hours. Beyond 24 hours, lightly sand to roughen before recoating.

CLEAN-UP

Before Blome CP-85 gels, it may be cleaned from hand tools and equipment using hot, soapy water. Once it has gelled, xylene or MEK will be required for cleanup.

CAUTION

Blome CP-85 may cause skin irritation with prolonged or repeated contact. Avoid skin contact and follow the material safety data sheet, which is available for each product.

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 MERCHANTABILITY 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.

Printed: July 15, 2012
Supersedes all previous literature