

## **Blome EC-8602** **Multi-Purpose Pigmented Epoxy**

### **PRODUCT DESCRIPTION**

Blome EC-8602 is a non-yellowing, pigmented epoxy with a multitude of uses for flooring. It may be used as a concrete sealer and finish, as a primer under certain Blome floor coatings and toppings, as a binder for silica aggregate blend underlayments and toppings. It has excellent wetting characteristics, good chemical resistance, gloss retention and superior physical properties.

### **GENERAL USES**

Blome EC-8602 has a wide variety of uses in flooring applications in conjunction with other Blome International coatings and toppings. Typical applications include:

- Resinous floor toppings in dairy, meat processing, food processing and beverage plants
- Sealers for floors in warehouses, mechanical rooms, pump houses, and other industrial areas requiring anti-dusting and better cleanability
- Aggregate-broadcast topping systems for animal labs, pharmaceutical facilities, semi-conductor plants, automotive assembly plants and food processing facilities.
- Resurfacing and re-leveling of floors before installation of other Blome coatings or toppings.
- Heavy duty floor toppings for areas of physical abuse and impact such as loading docks, forklift traffic aisles and heavy assembly plant areas.

### **HANDLING CHARACTERISTICS**

Blome EC-8602 is available in convenient 2-parts Resin to 1-part Hardener kits. It is easily applied by brush, roller or squeegee. Its excellent wetting characteristics and low viscosity facilitate application.

Blome EC-8602 may be applied as a primer at 160 square feet per gallon or as a sealer at 320 square feet per gallon (must be thinned and hiding power will be decreased).

Blome EC-8602 may also be blended with aggregate for use as a binder in a wide variety of applications.

### **TYPICAL PROPERTIES**

#### **TYPICAL PROPERTIES-WET**

Colors:	Silver gray, medium gray and tile red are standard; custom colors are available
Solids, by weight:	100%
Pot Life at 70°F:	20-30 minutes
Cure time at 70°F to light foot traffic:	6 hours
Cure time at 70°F to traffic:	24 hours
Final cure at 70°F:	7 days

## Typical Properties-Cured

Compressive Strength per ASTM C-579:	11,000 psi
Flexural Strength per ASTM D-790:	4,000 psi
Hardness, Shore D per ASTM D-2240:	72-65
Tensile Strength per ASTM D-638:	5,000 psi

## PACKAGING & STORAGE

Blome EC-8602 is packaged in 3-gallon kits, 15-gallon kits and 150-gallon (3 drum) kits.

Store unopened components in a dry place, out of direct sunlight and protected from the elements. Storage temperature should be 50-95°F. Properly stored, Blome 8602 will have a minimum shelf life of 12 months. Refer to the date of manufacture printed on the label.

## SPECIFICATION GUIDE

Use EC-8602 pigmented epoxy coating as manufactured by Blome International, O'Fallon MO.

## APPLICATION GUIDELINES ENVIRONMENTAL CONDITIONS

Blome EC-8602 should be applied at surface and air temperatures of 50°F minimum and 95°F maximum. Air temperature should always be at least 5°F greater the current dew point. Consult Blome International for applications at temperatures below 50°F. Ambient air, and substrate temperature must be stable or descending to avoid pinholes due to concrete out gassing.

## JOBSITE STORAGE OF MATERIALS

Proper storage of Blome International products is important to a successful application. Follow these general storage procedures:

Store components (Part A and Part B) unopened, at 50-85°F, out of direct sunlight and protected from the elements. Keep away from heat and flame. 24 to 48 hours prior to use, adjust the storage temperature to 70-85°F to facilitate handling.

## SURFACE PREPARATION

1. 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.
2. Concrete should exhibit a compressive strength of 3,000 psi minimum and tensile strength of 300 psi or higher.
3. 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.
4. 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.
5. New concrete must also be free of curing compounds, form release agents and any other contamination that might inhibit adhesion.
6. Old concrete must be free of existing coatings or toppings and any loose or unsound concrete must be removed.
7. 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.

8. Upon completion of cleaning, the concrete surface shall be prepared in accordance with ASTM D 4259. The resultant surface should be free of laitance and efflorescence and have a surface texture similar to medium (60-80 grit sandpaper).

## **MASKING & PROTECTION**

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

## **APPLICATION EQUIPMENT**

Blome EC-8602 may be applied by brush, roller, or squeegee. Since brush application is often for small areas or touchup, disposable china bristle brushes are recommended. Roller covers should be phenolic core roller suitable for epoxies and the nap thickness should reflect the texture of the substrate. Flat squeegees may be used and solvent resistant squeegee blades will facilitate cleanup and reuse.

## **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 coating after it has been applied. Be especially careful not to allow water to enter the mix.

## **WORKING TIME**

The working time for Blome EC-8602 is 20-30 minutes at 75°F in 3-gallon kits. Working time will be longer for cooler temperatures and will be much shorter at higher temperatures. Larger kit sizes will also reduce working time.

## **MIXING & APPLICATION**

1. Add the Hardener to the Resin in a ratio of 2 parts Resin to 1 part Hardener and thoroughly mix for 2-3 minutes.
2. When used as a primer or sealer, apply by brush, squeegee or roller at the recommended dry film thickness. For dense concrete or hard-to-coat surfaces, backroll to ensure proper wetting of the surface for optimum adhesion.
3. When used as a slurry, mix aggregate with resin/hardener mixture in a fixed arm mixer such as a KOL mixer until aggregate is wet out completely. Then spread with a rake or notched squeegee at the desired thickness.
4. When used as an aggregate broadcast system, apply at a uniform thickness of resin/hardener mixture with a notched squeegee and broadcast aggregate to saturation. Best results are obtained when the substrate is smooth, relatively level, and free of divots and protrusions.
5. When used as a trowel-applied topping, mix in a fixed arm mixer such as a KOL mixer until the aggregate is wet out completely. Screed mix out and hand or power trowel to the desired thickness.
6. When used as a cove base, add a thixotrope such as Cab-O-Sil or Blome Part C and mix with an aggregate blend in a fixed arm mixer such as a KOL mixer until aggregate blend is wet out completely. Apply to wall-floor joint and profile as desired.

Consult Blome International for specific details for using Blome EC-8602 in any of above-mentioned manners.

**TOUCH-UP & RECOATING**

Blome EC-8602 may be recoated with itself or other Blome epoxy and epoxy novolac coatings and toppings within 72 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 12 hours. Beyond 72 hours, lightly sand to roughen before recoating.

**CLEAN-UP**

Before Blome EC-8602 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. Chlorinated solvents may be used if flammable solvents are not allowed.

**CAUTION**

Blome EC-8602 may cause skin irritation with prolonged or repeated contact. Avoid skin contact and follow the 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.

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