

Blome EC-8600
Multi-Purpose Epoxy Primer/Intermediate Coating

PRODUCT DESCRIPTION

Blome EC-8600 is a medium viscosity, 100% solids, self-leveling or penetrating, epoxy concrete primer-intermediate coating. EC-8600 should be applied as a primer on new, cured concrete that has been cured for a minimum of 30 days. It can be used on concrete that has been mildly spalled due excessive wear. Blome EC-8600 also serves as an excellent intermediate when applying epoxy topcoats or polyurethane finish coats.

GENERAL USES

Blome EC-8600 has a wide variety of uses in flooring applications as well as in conjunction Blome EC-8604 High Build Epoxy Coating or with other Blome International coatings and toppings. EC-8600 is especially suited as a high build primer system when no odor or VOC is accepted. Additionally, EC-8600 can be filled with fine or extra fine silica sand for slurry coat applications that require high film build.

Typical applications include:

- Food and beverage plant floors
- Warehouse Floors
- Mechanical Room Floors
- Sealer for Anti-dusting floors

HANDLING CHARACTERISTICS

Blome EC-8600 is available in convenient 1-part Resin to 1-part Hardener kits. It is easily applied by brush, roller or squeegee. This product also provides excellent intercoat adhesion properties and blush resistance. Its excellent wetting characteristics and low viscosity facilitate application. Blome EC-8600 may be applied as a primer at 200 square feet per gallon at 8 mils. When applied as an intermediate coating, use at a rate of 160 square feet per gallon (10 mils). Blome EC-8600 may also be blended with fine-extra fine aggregate for slurry coat applications.

TYPICAL PROPERTIES-WET

Color:	Consult Blome International for options.
Solids, by weight:	100%
Mix Ratio, by volume	1:1
Pot Life at 72°F:	25-30 minutes
Cure time at 77°F to touch:	6 hours
Recoat window at 77°F	10-24 hours
Cure time at 77°F to foot traffic:	12 hours
Heavy Traffic/Final cure at 77°F:	72 hours

TYPICAL PROPERTIES-CURED

Compressive Strength (ASTM C-579):10,400 psi
Flexural Strength (ASTM D-790):4,000 psi
Tensile Strength (ASTM D-638):4,500 psi
Hardness, Shore D (ASTM D-2240):70-75
Abrasion Resistance (CS-17, 1000 g load,
1000 cycles):100 mg loss, maximum
Flammability (ASTM D-635):Self-extinguishing (0.25")

PACKAGING & STORAGE

Blome EC-8600 is packaged in 4-gallon kits, 5-gallon pails (each of Parts A and B) and 50-gallon drums (each of Parts A and B). Each component is pre-measured and ready to use. 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 EC-8600 will have a minimum shelf life of 12 months. Refer to the date of manufacture printed on the label.

SPECIFICATION GUIDE

Consult Blome International for specification guidelines specific to the usage of Blome EC-8600.

APPLICATION GUIDELINES

ENVIRONMENTAL CONDITIONS

Blome EC-8600 should be applied at surface and air temperatures of 60°F minimum and 90°F maximum. Air temperature should always be at least 5°F greater than the current dew point. Consult Blome International for applications at temperatures below 50°F. Ambient air and substrate temperature should be either stable or descending to avoid pinholes and bubbles due to concrete outgassing.

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 70-80°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 the concrete to cure for additional time before the coating is applied.

NOTE: 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.

4. New concrete must also be free of curing compounds, form release agents and any other contamination that might inhibit adhesion.
5. 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.

6. 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).

SURFACE PREPARATION- MISCELLANEOUS SURFACES

Consult Blome International for use over substrates other than concrete.

MASKING & PROTECTION

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

APPLICATION EQUIPMENT

Blome EC-8600 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-8600 is 25-30 minutes at 75°F in 4-gallon kits. Working time will be longer for cooler temperatures and will be much shorter at higher temperatures. Mixing large batch sizes will also reduce working time.

MIXING & APPLICATION

1. Add the Hardener to the Resin in a ratio of 1 part Resin to 1 part Hardener and thoroughly mix for 2-3 minutes.
2. Thinning is NOT recommended.
3. When used as a primer or sealer, apply by brush, squeegee or roller at the recommended dry film thickness. Back rolling is not recommended.
4. When used as a slurry, mix aggregate and resin 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. Back roll using a ¼" nap mohair roller.
5. This product is NOT recommended as a topcoat, nor is it recommended for exterior applications or immersion service.

Consult Blome International for specific details for using Blome EC-8600 in any of above-mentioned manners.

TOUCH-UP & RECOATING

Blome EC-8600 may be recoated with itself or other Blome epoxy or novolac epoxy coatings and toppings within 24 hours without special surface preparation. Provided that the temperature during the cure time does not exceed 90F and the coating has not been exposed to direct sunlight for more than 12 hours. Beyond 24 hours, lightly sand to roughen before recoating.

CLEAN-UP

Before Blome EC-8600 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-8600 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.