

## Primer 75 with Conductive Powder Conductive Epoxy Primer

### PRODUCT DESCRIPTION

Blome Primer 75 is a two-component, moisture-tolerant epoxy primer for steel, concrete and other substrates as specified. It is used to prime concrete, steel and other substrates prior to application of other Blome International coatings, linings, membranes, sealants and polymer concretes. It achieves a tenacious bond to the substrate and tolerates substrate dampness but not wet surfaces.

**The addition of 1 LB Blome Conductive Powder per gallon of Primer 75 provides conductivity when needed for spark testing Blome epoxy coatings on concrete and other poorly conductive surfaces.**

### GENERAL USES

Blome Primer 75 is used as a primer for other Blome International materials in a wide variety of applications. Typical applications include:

Secondary containment linings  
Tank linings  
Monolithic floor toppings  
In-situ polymer concrete installations  
Trench linings

With the addition of Blome Conductive Powder, Blome epoxy coatings may be spark tested on concrete to ensure pinhole-free applications.

### HANDLING CHARACTERISTICS

- Blome Primer 75 is available in convenient 2-parts resin to 1-part hardener kits. It is easily applied by brush, roller, spray or squeegee. Its excellent wetting characteristics and low viscosity facilitate application.
- Primer 75 is normally applied at 100-150 square feet per gallon on concrete and other porous surfaces.
- Consult the data sheets for subsequent Blome International overcoat materials for additional details and film thickness requirements.
- Blome 75 is also available in a Low Temperature Curing version, which allows installation at temperatures as low as 40°F.

### TYPICAL PROPERTIES WET

Color: Hazy to clear (black when mixed with conductive carbon powder)

Pot Life at 70°F: 25-30 minutes

## TYPICAL PROPERTIES CURED

Moisture Tolerance: Good

Solids, %/wt.: 100

Bond Strength to Steel: 1,200 psi

## PACKAGING & STORAGE

Adhesion to concrete: > strength of concrete

Water absorption: Very low, 0.15%

Blome  
Primer

75 is packaged in 1.5-gallon and 15-gallon kits. 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 50-90°F. Properly stored, Blome Primer 75 will have a minimum shelf life of 12 months. Refer to the date of manufacture printed on the label.

Blome Conductive Powder is packaged in 5 LB bags. **When conductivity is required, use at a rate of 1 LB Blome Conductive Powder per 1 gallon Primer 75.**

## SPECIFICATION GUIDE

Prime all surfaces with a two-component, moisture-tolerant epoxy primer meeting the generic formulation and performance characteristics of Blome Primer 75 as manufactured by Blome International, O'Fallon, MO (800) 886-3455. Install in accordance with the latest data sheet for Blome Primer 75.

## APPLICATION GUIDELINES ENVIRONMENTAL CONDITIONS

Blome Primer 75 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 than the dew point. Primer 75 should be applied when the ambient air and substrate temperature is stable or descending to avoid pinholes and bubbles 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:

1. Store components (Resin and Hardener) unopened, at 50-90°F, out of direct sunlight and protected from the elements.
2. 24 to 48 hours prior to use, adjust the storage temperature to 70-85°F to facilitate handling.

## SURFACE PREPARATION- STEEL

The following recommendations generally apply to the proper surface preparation of steel for Blome Primer 75 but consult the data sheet of the Blome overcoat material for any additional or superseding requirements for surface preparation.

1. Steel substrate must be free of all oil, grease, dirt, dust, mill scale, rust, existing coatings and other contamination.

2. All welds must be smooth and continuous. All weld splatter, buckshot, laminations, and slivers must be removed and ground smooth.
3. Undercuts and pinholes must be filled with weld metal and ground smooth.
4. *Atmospheric service*: Abrasive blast in accordance with SSPC-SP 10 Near-White Blast Finish (NACE No. 2) and 2 to 4 mil dense, sharp anchor profile.
5. *Immersion service*: Abrasive blast in accordance with SSPC-SP 5 White Metal Blast Finish (NACE No. 1) and 2 to 4 mil dense, sharp anchor profile.

## **SURFACE PREPARATION-CONCRETE**

The following recommendations generally apply to the proper surface preparation of concrete for Blome Primer 75 but consult the data sheet of the Blome overcoat material for any additional or superseding requirements for 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. 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 is an unacceptable surface for coating.
3. We recommend utilization of a low water-cement ratio, preferably 0.38, and adequate superplasticizers for placement is 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.
6. 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.
7. 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.

## **MASKING & PROTECTION**

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

## **APPLICATION EQUIPMENT**

Blome Primer 75 may be easily applied by brush, roller or spray. 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 epoxy based coatings and the nap thickness should reflect the texture of the substrate. Blome Primer 75 may also be applied by spray using airless spray equipment. A 30 to 1 ratio pump, 3/8" ID material line and a Graco Silver Gun are suggested.

## **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 careful not to allow water to enter the mix.

## WORKING TIME

The working time for Blome Primer 75 is 25-30 minutes at 70°F in 1.5-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 and thoroughly mix for 2-3 minutes. Uniform mixing is critical to uniform curing of the applied film.
2. **If conductivity is required, stir in 1 LB of Blome Conductive Powder per gallon of Resin and then add the Catalyst to the mix. Mix thoroughly for 2-3 minutes to ensure even Powder distribution throughout mix.**
3. Apply Blome Primer 75 at a uniform thickness using the application method of choice. If applying by spray to concrete surfaces, backroll to ensure adequate wetting of the substrate.
4. Remove any excess primer and ensure that no resin puddling is present.
5. Allow primer to cure hard or overnight before applying topcoat. Do not apply topcoat over Blome Primer 75 while primer is still tacky.

## TOUCH-UP & RECOATING

Blome Primer 75 may be recoated with itself or top coated without special surface preparation within 48 hours. Beyond 48 hours, light sanding to de-gloss is recommended before re-priming or top coating.

## CLEAN-UP

Before Blome Primer 75 gels, it can be cleaned from hand tools and equipment using hot, soapy water, MEK or acetone. Spray equipment should be flushed periodically and at days end with solvent to avoid gelling in the equipment and hoses. Follow the equipment manufacturer's recommendations for proper cleaning and care instructions. After Blome Primer 75 gels, stronger solvents will be required for cleaning. Use chlorinated solvents if flammable solvents are not allowed.

## CAUTION

Blome Primer 75 Resin and Catalyst and mixes of them present various health hazards if handled improperly. Read and abide by the safety label on each unit and refer to the Material Safety Data Sheet for specific hazards.

## 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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