

## **Blome Primer/Sealer 76 Epoxy Sealer/Injection Resin**

### **PRODUCT DESCRIPTION**

Blome Primer 76 is a low viscosity, 100% solids epoxy resin system with a multitude of uses for concrete and masonry maintenance and repair. It is used as a penetrating sealer for concrete and masonry, as an injection resin for crack repair, as a primer/sealer under Blome flooring systems and as a binder for high flow epoxy repair grout. Primer 76 is easily applied and cures rapidly for quick repairs. It has extremely low viscosity with excellent wetting and sealing characteristics for porous substrates.

### **GENERAL USES**

Blome Primer 76 has a wide variety of uses for concrete and masonry maintenance and repairs. It is widely used in conjunction with other Blome International coating and lining systems.

Typical applications include:

- Penetrating Sealer for Concrete & Masonry
- Epoxy Crack Injection
- Resurfacing/resloping
- Concrete Patch and Repairs

### **HANDLING CHARACTERISTICS**

Blome Primer 76 is supplied as a two component product with Resin (Part A) and Hardener (Part B). The mix ratio is four (4) parts Resin to one (1) part Hardener by volume. Primer 76 is packaged in either pre-measured 4:1 units or the Resin and Hardener are supplied in five gallon pails. For concrete or masonry sealing it is easily applied by brush, roller or squeegee. It is easily pumped for crack injection applications. Its excellent wetting characteristics and low viscosity facilitate application. Blome Primer 76 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). Blome Primer 76 may also be blended with aggregate for use as a repair mortar/grout binder in a wide variety of applications.

### **TYPICAL PROPERTIES-WET**

Color: Clear to Amber

Solids, by weight: 100%

Pot Life at 77°F: 20-25 minutes

Cure time at 77°F to light foot traffic: 4-6 hours

Cure time at 77°F to traffic: 12 hours

Final cure at 77°F: 7 days

### **TYPICAL PROPERTIES-CURED**

Compressive Strength (ASTM C-579): 13,100 psi

Flexural Strength (ASTM D-790): 4,300 psi

Hardness, Shore D (ASTM D-2240): 65-72

Tensile Strength (ASTM D-638): 3,000 psi

## **PACKAGING & STORAGE**

Blome Primer 76 is packaged in pre-measured 1.25 gallon kits, 5 gallon kits and 25-gallon kits. The resin and hardener components are also packaged in bulk drums for larger projects. Store unopened components in as dry place, out of direct sunlight and protected from the elements. Storage temperature should be 50-95°F. Properly stored, Blome Primer 76 will have a minimum shelf life of 12 months. Refer to the date of manufacture printed on the label.

## **SPECIFICATION GUIDE**

Specify Blome Primer 76 as produced by Blome International, O'Fallon, MO. Consult Blome International for specification guidelines specific to the usage of Blome Primer 76.

## **APPLICATION GUIDELINES ENVIRONMENTAL CONDITIONS**

Blome Primer 76 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 should be either 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:

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 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 steel or concrete.

## **MASKING & PROTECTION**

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

## **APPLICATION EQUIPMENT**

Blome Primer 76 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. For injection applications use injection pump suitable for low viscosity epoxy injection.

## **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 Primer 76 is 20-25 minutes at 75°F in smaller quantities. 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 4 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 for epoxy injection crack repair, mix only enough material that can be pumped (used) in 8-12 minutes. Do not store mixed material in batches any larger than 1-2 gallons.
4. When used as an aggregate filled epoxy grout or repair mortar, pre-mix resin and hardener for 2-3 minutes before adding aggregate fillers. Mix material in a fixed arm mixer such as a KOL mixer until the aggregate is wet out completely. Screed mix out and hand trowel to the desired areas and thicknesses.
5. When used as a cove base, aggregate and 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 as desired.

Consult Blome International for specific details for using Blome Primer 76 in any of above-mentioned manners.

## **TOUCH-UP & RECOATING**

Blome Primer 76 may be recoated with itself or other Blome epoxy or novolac epoxy coatings and toppings within 72 hours without special surface preparation. Provided that the temperature during the cure time does not exceed 90°F and the coating 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 Primer 76 gels, it may be cleaned from hand tools and equipment using hot, soapy water or biodegradable cleaners. Once it has gelled, xylene or MEK will be required for cleanup.

**CAUTION**

Blome Primer 76 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.