

PRODUCT NAME

# Gem-Cote EP™ 100 Primer

## Epoxy Primer/Sealer



MANUFACTURER

Gemite® Products Inc.

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FEATURES

- 100% solids (no solvent)
- Superior Toughness
- Fast Set & Strength Development
- Excellent Bond
- Pinhole free primer/sealer
- Resists “white rust” on coated galvanized metal
- Fungus & Mold Resistant
- Economical

PRODUCT DESCRIPTION

Basic Use

*Gem-Cote EP 100 Primer* is a two component 100% modified epoxy, specially formulated for priming existing coated surfaces, steel, galvanized metal and concrete.

Composition and Materials

*Gem-Cote EP 100 Primer* is 100% solids epoxy modified resin system, solvent free, satisfying VOC requirements.

Limitations

Do not apply if temperature is below 10°C (50°F).

Health and Safety

Two-component epoxy systems can produce severe injury to, or destruction of skin and eye tissues. They are classified as corrosive for shipping purposes. Precautions must be taken to prevent prolonged or repeated skin contact and it is essential to protect the eyes from splashes. Protective clothing, rubber gloves and chemical goggles should be worn. Some people become sensitized when working with epoxy resin systems. Avoid breathing vapors, particularly if these products are used in a confined area. Face mask with respirator #1224 is usually adequate. **Must NOT Freeze. FOR INDUSTRIAL USE ONLY. Consult MSDS for additional information.**

Packaging

*Gem-Cote EP 100 Primer Kit* is 8 L (2.1 USG) and consists of *Gem-Cote EP 100 Primer Component A + Component B*. Each component is clearly identified as A, or B and has a batch number.

Yield

*Gem-Cote EP 100 Primer* is typically applied in dry film thickness varying from 25-100 microns (1 to 4 mils). The theoretical coverage is 40 m<sup>2</sup>/L/25 micron (1604 ft<sup>2</sup>/USG/mil). The actual coverage will depend on the applied thickness and on the surface profile (roughness) of the surface.

Storage and Shelf Life

Unopened containers, stored on pallets in a heated area, have 12 months shelf life.

TECHNICAL DATA

**Gem-Cote EP 100 Primer - Physical Properties**

Cure to touch @ 25°C (77°F)	6 hours
Cure to handling @ 25°C (77°F)	6 hours
Pot Life @ 25°C (77°F)	1 hour
Recoat time	Minimum recoat time 6 hours; maximum recoat time 48 hours
Ultimate cure time @ 25°C (77°F)	7 Days
Solids content	100%
Volatile organic content (VOC's)	0 g/ L
Theoretical Coverage	40 m <sup>2</sup> /L/25 micron(1604 ft <sup>2</sup> /USG/mil)
Hardness ASTM D-2240 Shore D	80
Adhesion to concrete	Exceeds tensile strength of concrete
Adhesion to steel, Galvanized Metal and Ductile Iron, 2 mil Anchor pattern, NACE 2, Near White Blasted Mild Steel	> 13.8 MPa (> 2000 psi)
Colors	Clear, other colors available on a special order basis

INSTALLATION

Guide Specifications are available and must be followed.

Surface Preparation

New concrete should air dry, after wet curing, for min. 3 days at 20°C. Concrete surface must be clean and any existing coatings, debris, oil, grease, dirt, wax, laitance, curing compounds & other contaminants, which may interfere with proper adhesion, must be removed. Special caution must be taken to assure that the crack is not plugged with any foreign material, or especially water.

Gemite Products Inc.  
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103064 Concrete, Steel Sealers  
09780 Floor Treatment

## **Surface Preparation - Steel or Previously Coated Surfaces**

Please contact Gemite Technical Service for detail Surface Preparation Guidelines.

## **Mixing & Application**

Do not apply if temperature is below 10°C (50°F) or if the dew point is within 3°C (5°F) of the temperature. All application and surface preparation should be consistent with good painting practices. This is a two component system with 1:1 mix ratio by volume. Agitate individual components thoroughly before use to assure homogeneity. Both components (Part A Resin and Part B Hardener) should be between 21°C(70°F) and 32 °C (90°F) prior to mixing. Pour Component B into the container containing the Component A and mix well, using a low speed (250-300 RPM) mixer. Scrape the sides and bottom of the mixing container. Incomplete mixing will result in soft spots or color variation. Begin application immediately after mixing. *Gem-Cote EP 100 Primer* may be applied using a brush, 6 mm (1/4 in) or 9 mm (3/8 in) nap phenolic core roller, squeegee, or airless spray. When using airless spray, it is recommended to use a 45:1 ratio pump, 0.58 - 0.68 mm (0.023-0.027 in) orifice tip, and 9 mm (3/8 in) material hose unless more than 15 m (50 ft) is required, then use 12 mm (1/2 in) materials hose. The total application thickness may vary, depending on expected service conditions (i.e. Chemical exposure, temperature, traffic load and other me

chanical abuse, immersion service vs. splash-spill, etc.) A second coat or a top coat may be applied over the first, as long as it is applied within the recoat window. Otherwise, roughening of the surface will be necessary to ensure good intercoat adhesion. Allow any coating to cure completely before putting into service.

## **Clean Up**

Use isopropyl alcohol to clean all tools and equipment immediately after use. Isopropyl alcohol is flammable and smoking, open lights, flames, motors, or pilot lights must NOT be used in the vicinity of application. Smoking near the solvent is to be forbidden.

## **AVAILABILITY AND COST**

*Gem-Cote EP 100 Primer* is available worldwide. Contact the manufacturer for the name of the nearest Representative/Distributor and current pricing information.

## **WARRANTY**

A limited twelve (12) month Material Replacement Warranty is available where applicable. For details contact Gemite's Head Office.

## **TECHNICAL SERVICE**

Technical advice on suitability of *Gem-Cote EP 100 Primer* for particular application, Specification assistance & Application advice contact Gemite Technical Service USA (888) 443-648; Canada (905)672-2020, or at [techinfo@gemite.com](mailto:techinfo@gemite.com)