

45 Primecoat™



Single Component Epoxy Primer

Item# PR45 Revised: 10/15/2014

Description

Epoxytec 45 Primecoat™ is a single-component epoxy primer formulated to provide a base coat prior to coating concrete, steel and other substrates. Provides an excellent cross-link with added adhesion. Formulated to assist in the adhesion of coating applications, adhesives, and other epoxies; particularly improves the adhesion of urethane materials as well. Being in the epoxide family, as a penetrating and thin-mil surface sealant, it also performs as base protection for chemical resistance, and extended water immersion.

Typical Uses

Mainly, but not limited to, applications for concrete floors, concrete or brick walls, suitable for any similar architectural or structural concrete structures. Performs on metal surfaces.

Epoxytec 45 Primecoat™ is recommended for use on class 1, 2, 3, 4 concrete floors as classified in 1.1 of ACI Standard 302-69.

Surface Preparation

Coat only clean, dry surfaces. Remove all grease, oil, dirt or other foreign matter by solvent or detergent washing.

Concrete: (1) Brush-Blast Cleaning (SSPC-SP7) can be used to prepare the concrete by removing all foreign matter and provide profile for bonding. Remove all dust from surface before starting the application of the coating. Epoxytec 45 Primecoat™ is recommended to prime and seal concrete. (2) Water Blasting: Water Blasting is acceptable in order to meet the standards described in NACE No. 6/SSPC-SP 13, "Surface Preparation of Concrete."

Previously Painted Surfaces: Remove all rust, rust scale, other corrosion products, loose or heavy chalk and loose or scaling paint by: Hand or Power Tool Cleaning" (SSPC-SP-2 or 3). Brush blast any glossy areas until dull. Spot prime bare areas as recommended and apply one or more coats of Epoxytec 45 Primecoat™ as specified. Check compatibility by applying coating to a representative area and allow to cure and age. Then make cross-hatched cuts through the coating and check adhesion by firmly applying masking tape to cross-hatched area and removing with a fast pull. If the coating remains intact and there is no wrinkling, lifting, blistering or any other sign of incompatibility present, coating work may then proceed.

Application Method

Epoxytec 45 Primecoat™ can be applied by brush, roller, or spray.

Mixing: Material is supplied in containers as a unit. The unit comes ready as supplied.

Thinning: Supplied at spray viscosity, requires no thinning.

Induction Time: Not applicable.

To obtain maximum edge retention and film build, conventional or airless spray is recommended. Thoroughly flush equipment with solvent. Application by other methods, brush or roll, may require more than one coat.

Roller: short nap roller cover.



Conventional Spray: DeVilbiss MBC-510 gun or equal; E-tip and 704 air cap; 3/8" ID material hose; double regulated pressure tank with oil and moisture separator. *Airless Spray:* minimum 28:1 ratio pump; .013" - .017" orifice tip; ¼" ID Teflon material hose; 90-100 PSI line pressure.

Storage & Handling

- Shelf Life 12 months, sealed.
- Storage: Store in a dry area away from direct sunlight. The product should be conditioned to between 40 °F and 85 °F before use.

Safety

Consult the current "Material Safety Data Sheet" for this product before use.

Limitations

Apply in good weather when air and surface temperatures are between 50°F and 100°F. Keep from freezing.

Coverage & Thickness

Theoretical coverage will depend on substrate (how absorbent); however, product should be applied at 3 – 4 mils DFT (as thin as possible). The coverage will yield between 300 and 500 square feet per gallon depending on thickness.

Technical Properties

▪ Mix Ratio	N/A
▪ Solids by Weight	31.25%
▪ Pot Life @ 25°C (77°F)	N/A
▪ Initial Cure @ 25°C (77°F)	3-5 min.
▪ Recoat Window @ 25°C (77°F)	15 min. – 1 hr.
▪ Final Cure @ 25°C (77°F)	2 hrs.