

B1 Primecoat™



Item# PR1 Revised: 4/5/2010

Solvent-based Epoxy Primer

Description

Epoxytec B1 Primecoat™ is designed as a high performance sealer and coating formulated for concrete. Epoxytec B1 Primecoat™ is supplied in a convenient one-to-one mix ratio. B1 Primecoat™ is capable of penetrating and filling the porous structure of concrete in order to provide an effective subsurface barrier to prevent moisture migration, out-gassing, and chemical penetration. Epoxytec B1 Primecoat™ exhibits highly penetrating properties which provide porous filling and strengthening of the top concrete layer to form a sufficiently strong base for subsequent top coats.

Typical Uses

Mainly, but not limited to, applications for concrete floors, concrete or brick walls, suitable for any similar architectural or structural concrete structures: pits, mines, tunnels, reservoirs, sewers, or cisterns, etc. Immersion and non-immersion utilization.

Epoxytec B1 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 B1 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 B1 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.

Mixing: Material is supplied in 2 containers as a unit. Always mix a complete unit as supplied (3B to 1A by volume). Thoroughly mix B Component before adding A Component. Combine entire contents of Part A and Part B and mix thoroughly with a Jiffy Mixer or equal for 2-3 minutes.

Thinning: Supplied at spray viscosity, requires no thinning.

Application Method

Epoxytec B1 Primecoat™ can be applied by brush, roller, or spray.

Induction Time: None required.

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. Dynel recommended.



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; 1/4" ID Teflon material hose; 90-100 PSI line pressure.

Storage & Handling

- Shelf Life 18 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.

Packaging & Color

- 2 Gallon Kit (cans) Item# PR1-G2 (amber/clear)

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	1:1 by volume
▪ Volume Solids (ASTM D2697)	50% (+/- 2%)
▪ Pot Life @ 25°C (77°F)	8 – 10 hrs.
▪ Initial Cure @ 25°C (77°F)	12 hrs.
▪ Recoat Time @ 25°C (77°F), recoat	12 hrs. – 24 hrs.
▪ Final Cure @ 25°C (77°F)	7 Days
▪ Seward Hardness	70 – 75



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