

Top Bond EP



Epoxy Bonding Agent for Concrete

PRODUCT DESCRIPTION

TOP Bond EP is a multipurpose solvent free two component system based on liquid epoxy resin with a hardener. Provides a bond of far greater strength than the tensile strength of the concrete itself. It is supplied as a two part material in pre weighed quantities for ready onsite mixing and use.

USES

TOP Bond EP is used for bonding new cementitious materials to existing cementitious surfaces. It is used on horizontal as well as vertical surfaces where mortar or concrete can be supported by formwork. It is ideally used for extensions and repairs to structural concrete in buildings, loading bays, bridges, roads etc..

ADVANTAGES

- High bond strength – Bond strength is more than the tensile strength of good quality concrete.
- Acts as a barrier coat to the migration of chloride ions from the concrete substrate.
- Chloride and iron free, hence no chance of corrosion.
- Low viscosity easy to apply.
- High abrasion and chemical resistance.
- Used on horizontal and vertical surfaces as a repair ingredient to corroded or spalled concrete.
- Increases durability of repaired structures.

TECHINICAL PROPERTIES

Color & Appearance	Grey Liquid
Bond Strength	15 N/mm ²
Compressive Strength @ 7 days	75 N/mm ²
Flexural Strength @ 7 days	35 N/mm ²
Tensile Strength @ 7 days	28 N/mm ²
Shear Strength @ 7 days	12.4 N/mm ²
Application Temperature	15°C - 35°C
Density	1.5 kg/l

PACKING

TOP Bond EP is supplied in 1kg and 3Kg kit.

COVERAGE

TOP Bond EP will have coverage of 2 - 2.6m²/kg per coat. The coverage can vary depending on the surface condition.

STORAGE

12 Months in Unopened Packaging. Protect from Rain, Direct Sunlight, Heat and Frost, Empty packs completely and dispose off carefully to protect our Environment.

APPLICATION PROCEDURE

SURFACE PREPARATION: Clean the surface and remove any dust, unsound or contaminated material, plaster, oil, paint, grease, corrosion deposits or algae. All metal components to be in contact with grout must be free of rust, paint, or oil should be removed by etching with solvent and wire-brushing. In some cases, the existing concrete must be chipped to a sound substrate.

MIXING:

Top Bond EP is stirring Part A, add Part B and blend thoroughly using a slow speed mixer fitted with a suitable paddle.

COATING:

The Top Bond EP may be placed using a brush or roller and applied evenly across the whole surface. Subsequent coats should be placed within 30-45 minutes and the Top Bond EP should still be tacky. For bonding fresh concrete this should be applied into a still tacky surface if the tack has gone reapply the Top Bond EP. Top Bond EP should not be applied when the temperature is below 10⁰C.

CURING

Cure time will vary depending on the ambient temperature, quantity mixed and placed. Top Bond EP will have fully cured after 7 days at 25°C.

CLEANING

Clean all equipment with water immediately after use.

SAFETY PRECAUTION

Contact with skin and eyes should be avoided. Gloves should be used when handling these products. If contact with the resin occurs, wash immediately with a strong detergent or a resin removing cream. Eye contamination must be immediately washed with plenty of water and medical treatment sought.

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