



EPBOND EP

Old to new concrete bonding epoxy resin

Description

EPBOND EP is based on solvent free epoxy resins. It is supplied as a two part material in pre weighed quantities for ready onsite mixing and use. The physical properties of the product allow its use in applications requiring resistance to creep and stress relaxation, maintenance of mechanical properties at ambient temperatures and high load bearing strength. Applications include the structural bonding of plastic (fresh) concrete to hardened (existing) concrete; bonding of concrete, masonry, stone. The product bonds to dry, damp and wet surface and act as a bonding agents in non-load and load bearing applications from new to old concrete.

Uses

- In application for bonding harden concrete to harden concrete and fresh concrete to harden concrete
- In area where extensions of concrete structure is required in all types of high and lowraise building buildings
- It can be used either in internal or in external condition
- Can be used in road ,bridge, factories construction works

Advantages

- EPBOND EP can be applied by brush i.e. ease in application
- Enables to place the concrete up to gel time of EPBOND EP, without risk of de lamination
- Bond strength is more than the tensile strength of good quality concrete
- Acts as a 'barrier coat' to the migration of chloride ions from host concrete
- Exhibits high mechanical strength

Standard Compliance

- ASTM C881: Type I, Type II, grade 2 class C, ACI 548.13-14

Limitation

- It is not recommended to use this product in middle of the day in direct sunlight if temperature crosses above 350C.

Technical Information

Properties	Results
Pot life	6 to 8 hrs @ 20°C
Compressive strength @ 7 days (As per ASTM D695)	>50 N/mm ²
Tensile strength 7 days (As per ASTM D638)	>35 N/mm ²
Flexural strength 7 days (As per ASTM D670)	>20 N/mm ²
Water absorption (As per ASTM D570)	0.05%
pH	7 to 8
Full cure	5 day @35°C 4 days @ 45°C

Method of Application

- Clean all surfaces and remove any dust, unsound material, plaster, oil, paint, grease, corrosion deposits or algae. Roughen the surfaces, remove any laitance and expose the aggregate by light scrubbing or grit-blasting.
- Any steel reinforcement and formwork should be prepared, cut to size and shape, and made ready for assembly before mixing commences.
- Care should be taken to ensure that EPBOND EP is thoroughly mixed. The 'hardener' and 'base' components should be stirred separately before mixing to disperse any settlement
- The entire contents of the 'hardener' tin should then be poured into the 'base' tin and the two materials thoroughly mixed using a suitable slow-speed drill and mixing paddle for 2 minutes until a fully uniform colour is obtained.
- EPBOND EP should be applied as soon as the mixing process has been completed. It should be brush or roller applied to the prepared surfaces, being sure to achieve an unbroken coating across the entire substrate
- EPBOND EP should be tacky before the new concrete, screed or mortar is placed. The maximum overlay times (see Properties) should also be carefully observed

Coverage

- Approximately 2.5 to 3.5 m²/liter
(Actual coverage will depend upon the texture and porosity of the substrate being covered.)

Packaging

- Available in 4 kg set.

Storage

- Shelf life is 12 months in unopened packs stored at room temperature i.e.27°C the liquid component must not be allowed to freeze.

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