



BOSTIK EP BOND

EPOXY BONDING AGENT

TECHNICAL DATA SHEET

DESCRIPTION

Bostik EP Bond is a solvent free pigmented two component system based on liquid epoxy resin with a special hardener. It is supplied as a two part material in pre weighed quantities for ready onsite mixing and use. Coloured components – white base and black hardener provide a visual evidence that both the components are adequately mixed.

USE

Bostik EP Bond 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

More overlay time – enables to place the concrete up to 6 hours (at 20 °C) after applying Bostik EP Bond, without the risk of de bonding

High bond strength – Bond strength is more than the tensile strength of good quality concrete

Barrier coat – acts as a barrier coat to the migration of chloride ions from the concrete substrate

Very hard and abrasion resistant

Water proof

Resistant to waste and sea water

Suitable for dilute inorganic acids and mineral oils

PROPERTIES

Colour	Grey
Pot life at 27 +/- 2°C, hours	2 - 3
Minimum hardening temp °C	10
Curing time, in days, min	7
Overlay time at 30 °C, hours	6
Compressive strength, ASTM C-109	80 N/sq.mm
Flexural strength , ASTM C-78	40 N/sq.mm
Tensile strength, ASTM C-307	15 N/sq.mm

APPLICATION INSTRUCTIONS

Surface preparation:

Concrete surfaces should be free from laitance and dust by sandblasting. In case sand blasting is not possible, thorough abrading with a hard wire brush can be used, though it is not as efficient. All laitance should be removed by etching with etching agents like Bostik Etch clean and wire brushing. In some cases, it may be necessary to remove the concrete by chipping. If the substrate is contaminated with oil or grease, these should be removed by using a strong industrial detergent or organic degreaser. Then the surface should be washed thoroughly with water and dried before the application of Bostik EP Bond.

The pre-requisites for good adhesion of the coating are cleanliness, roughness and dryness of the surface. Unless these are ensured by proper surface preparation, a successful performance can not be guaranteed.

APPLICATION

Mixing:

Both the components of Bostik EP Bond are packed in correct proportion. Before mixing both the components together, they have to be individually stirred well for uniformity. Then the entire contents of the hardener should be poured into the base container and the two materials are thoroughly mixed until a uniform grey colour is obtained.

Concrete application:

Mixed Bostik EP Bond should be applied by brush to the prepared surface. The new concrete should be placed within 6 hours at 30° C to the Bostik EP Bond coated surface, when it is in a tacky state.

Note:

1. If the atmospheric temperature falls below 10 °C then both base and hardener components should be warmed to 25 °C in hot water bath before mixing.
2. When working in closed areas like inside containers or silos, good ventilation must be provided.
3. After the application, Bostik EP Bond should be protected from rain and dew for a period of 6 hours.
4. On application, the relative humidity should not exceed 75%.

CLEANING

Immediately after application of Bostik EP Bond, clean the tools, equipment and the mixing container using solvents like Bostik Thinner E otherwise, removal of dried / hardened epoxy mortar is difficult.

PACKING

Bostik EP Bond - 1 kg

STORAGE & SHELF LIFE:

Bostik EP Bond Base and Hardener as supplied shall be stored in a cool and dry place away from sunlight, moisture and high humidity and have a shelf life of 12 months in the original packing.

HEALTH & SAFETY:

Bostik EP Bond contains epoxy resins and hardeners which may cause sensitization by skin contact. Avoid contact with skin and eyes and inhalation of vapour. In case of contact, wash liberally with water and seek medical advice, if required. Wear suitable protective clothing, gloves and goggles while handling.

FIRE

Bostik EP Bond is inflammable. No naked flame should be allowed near the site

WARRANTY

Whilst Bostik India (P) Ltd., strives to ensure that any advice, information or recommendation given are appropriate and correct, it cannot accept any liability directly or indirectly arising out of the products, since the method and place of application of the products are beyond its control. Its guarantee is therefore limited to the quality of materials delivered.

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