EP BOND BA

TECHNICAL DATA SHEET

EPOXY RESIN BASED CONCRETE BONDING AGENT

Description

EP BOND BA is a solvent free epoxy resin, which is supplied as a two-pack component in pre- weighed quantities for ready to mix and use condition.

Uses

- Bonding of wet cementitious materials to existing cementitious surfaces
- Ideal for roads, bridges, pavements, loading bays and factories, for bonded pr granolithic floor toppings.
- Can be used for critical areas, on Damp Surfaces
- Can be used for horizontal & vertical surfaces
- Used for vertical and horizontal surface where mortar and concrete can be supported by form work for jacketing.

Advantages

- High Bond Strength
- Extended pot life
- Exhibits high mechanical strength
- Positive adhesion – exceeds that of the tensile strength of the host concrete
- Slow cure allows time to erect steel reinforcement and formwork
- Solvent free

Technical Data

Working Life @ 25^{0}C @ 30^{0}C @ 35^{0}C	 160 mins 120 mins 80 mins
Max Overlay time @ 25^{0}C @ 35^{0}C @ 45^{0}C	 16 hrs 12 hrs 5 hrs
Min Overlay time	Overlay when tacky but not in wet condition
Full Cure	5 days @ 35˚C 7 days @ 25˚C
Compressive Strength (ASTM C109-99)	75 N/mm^2 @28 days
Tensile Strength (ASTM D638)	30 N/mm^2 @ 28 days
Slant Shear Strength (ASTM C882-99)	29 N/mm^2 @ 28 days
Pull off Adhesion (ASTM D4541-09)	>1.5 N/ mm^2 (Concrete failure)

Design Criteria: EP BOND BA is designed with an overlay time of 12 hours at 35^{0}C and 5 hours at 45^{0}C. making it more suitable for use where additional steel reinforcement and formwork has to be fitted or where temperatures are high. The minimum application temperature for EP BOND BA is 50ºC. Consult the local FCSC team for further information..

Application information

Surface preparation

The area's where EP BOND BA has to be applied must be dust free and clean. Wire brushing or FCSC Range of cleaning agents should be used to remove all laitance. Some areas may have to be subjected to chipping. The areas where the surface is contaminated with oil or grease has to be removed with degreaser. The surface has to be cleaned with fresh water and all traces of water have to be removed

Mixing and placing

Stir the Hardener and Resin individually with drill mixer of proper size. Then add the entire content of the hardener into Resin container stir the two components thoroughly using a low speed mixer (300-500 rpm) for about 2 to 3 Minutes until a uniform color of the mixture is obtained.

The mixed EP BOND BA should be applied by brush properly and evenly over the well-prepared surface. The new concrete has to be placed within 6 to 8 Hrs. depending on the temperature.

Consumption

EP BOND BA covers an area of Approx. 2.6 Sq Mtrs per 1 kgs pack. This is theoretical coverage data. Actual coverage will be depending on the surface, wastages etc.

Packaging

EP BOND BA is supplied in 1Kg, 3 KG & 6 Packs.

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Storage and Shelf Life

12 Months if sealed pack and stored under cool and dry shaded area.

Cleaning

All tools and equipment should be cleaned immediately after use with Xylene Sol. Spillages should be absorbed with sand or sawdust and disposed in accordance with local regulations.

Note

All Technical Data Sheets of FIRSTCHOICE SPECIALITY CHEMICALS are updated on regular basis; it is the user's responsibility, to obtain the most recent issue. Field services where provided, does not constitute supervisory responsibility, for additional information contact our local representative.

Disclaimer

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