

BP-FitBond EA

Epoxy Bonding Agent for Old to New Concrete

Description

BP-FitBond EA is a two component solvent free, high performance, long potlife, versatile epoxy resin bonding agent. **BP-FitBond EA** can be applied to both dry and damp surfaces and adheres to most substrates after proper preparation. It is supplied in pre-weighed quantities ready for on-site mixing and use. The 'base' component is white and the 'hardener' component is gray, providing visual evidence that adequate mixing has been achieved.

Standards

ASTM C881-Type I, II, and V, Grade 1 Class B and C

Application Area

BP-FitBond EA is used as a bonding agent between old and new concrete, screeds, mortars, steel to concrete, wood to concrete, etc. When used as part of a concrete repair system. For use on horizontal surfaces or on vertical surfaces where mortar or concrete can be supported by formwork. The long 'open' life makes it suitable for use with formwork or where additional steel reinforcement has to be fitted.

BP-FitBond EA will act as a barrier to prevent the migration of chlorides from the parent concrete into the repaired area.

Advantages

- ✓ Solvent Free, high build, non-toxic
- ✓ Long pot life suitable where formwork or additional reinforcement has to be installed
- ✓ Unaffected by moisture, can be applied on dry or damp substrates
- ✓ Exhibits high mechanical strength
- ✓ Easy to apply
- ✓ Exceeds the tensile strength of the parent concrete

Typical Properties

Property	Test Method	Value
Component		Two: Part A- Base Part B- Hardener
Form		Liquid
Colour		Grey when mixed
Pot Life		2-3 hours
Viscosity	ASTM C881	8-10 poise
Track Free Time		6-8 hours
Max. Overlay Time		5-6 hours
Compressive Strength	BS 6319-2	70 N/mm ²
Pull Out Strength	ASTM D 4541	> 2.5 N/mm ² (Concrete Failure)
Flexural Strength	BS 6319-3	30 N/mm ² control
Bond Strength	ASTM C 882	> 10 N/mm ²
Toxicity		Non-Toxic

Surface Preparation

Surfaces to receive **BP-FitBond EA** should be clean and free from loose particles, dust, oil, curing membranes, paint, grease, corrosion deposits etc. Roughen the surface and expose aggregates by light scrubbing or grit blasting. Oil and grease deposits should be removed by steam cleaning, detergent scrubbing or a proprietary degreaser.

Mixing

Stir the base and hardener components of **BP-FitBond EA** separately before mixing together. Transfer the contents of the hardener into the base tin container and mix thoroughly using a slow speed drill fitted with a paddle for about 2 minutes until a uniform consistency is obtained. The sides of the mixing container should then be scrapped and mixing should continue for a further 1 minute.

Application Guidelines

Apply **BP-FitBond EA** as soon as the mixing process is complete. Apply by brush, roller or spray. Apply to the prepared surfaces ensuring uniform thickness. Ensure that it is well brushed into the damp surface. New concrete or screed should be placed while the bonding agent is tacky. Ensure that the applied **BP-FitBond EA** is protected from contamination during this time.

For difficult access areas like congested reinforcement, sprayable version of **BP-FitBond EA** can be used. Consult Conpacmix (BD) Ltd. for details.

Curing

Cure time will vary depending on the ambient temperature, quantity mixed and placed.

Packaging

1kg & 10 kg Set

Coverage

4-5 m²/ltr/coat at 200 microns wft. Coverage depends on substrate porosity and texture.

Storage & Shelf-life

12 months from date of manufacture when stored under warehouse conditions in original unopened packing. Extreme temperature / humidity may reduce shelf life.

Limitations

At temperatures above 35°C, it is recommended that measures are taken to reduce material placing temperatures. These include, storing materials and equipments under cool shade and away from direct sunlight. Avoid installation during the hottest part of the day. Ensure that water temperature is kept below 20°C. Should not be used in unrestrained area.

Cleaning

Clean all equipments and tools with water immediately after use. Hardened material can be removed mechanically.

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Health and Safety

This product contains cement powders which, when mixed with water or upon becoming damp, release alkalis that can be harmful to skin. During use, avoid inhalation of the dust and contact with the skin or eyes. Gloves, goggles and suitable mask must be worn. Contact with skin, eyes, etc. must be avoided. If swallowed seek medical attention immediately. Regarded as non-hazardous for transportation. Do not reuse containers. To be disposed off as per local rules and regulations.

Quality & Care

Conpacmix (BD) Ltd. acquired German technology for an updated production facility and set up a state of the art laboratory facility for conducting regular quality assessments on raw materials procured and finished products. Process from procurement of raw materials to finished products, are managed by qualified and experienced engineers, chemists and technicians.

Note: Field service where provided does not constitute supervisory responsibility. Suggestions made by **Conpacmix (BD) Ltd.** either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not **Conpacmix (BD) Ltd.**, are responsible for carrying out procedures appropriate to a specific application.

Manufacture:

