



JAZEBOND - EP

2-Component, Solvent-free, Medium Viscosity, Epoxy Resin-based Concrete Bonding Agent

Product Description

JAZEBOND – EP is 2-component, solvent-free, 100 % solid content, medium viscosity concrete bonding agent. It is formulated for bonding new cement-based composition (including concrete) to the existing one. It is based on selected epoxy resin and curing agent enabling to bond dry or damp surfaces. It provides a permanent bond between new and old concrete greater than the tensile strength of the surrounding concrete and does not shrink after hardening.

Uses

- For bonding new concrete to the existing concrete.
- For bonding & patching mortars, steel, tiles, bricks, etc.
- For repairing work in industrial areas, roads, bridges, columns, walls, loading bays, and granolithic topping.
- To protect the concrete reinforcement.
- As structural adhesive.

Advantages

- Easy to mix and to apply.
- Excellent chemical resistance.
- Solvent-free, 100 % solid.
- High strength bonding adhesive.
- High tensile strength.
- Non-shrink.
- Moisture in-sensitive, can be applied on dry and damp concrete substrates.
- Excellent bond strength.
- Can be applied on both horizontal and vertical surfaces.
- Excellent positive adhesion to concrete and masonry surfaces.
- Medium viscosity enables a reliable glue line for bonding.
- Cures to a waterproof state, the cured film are impermeable to water, acts as waterstop.
- Formulated for the Middle East Climates.

Standards

JAZEBOND – EP is formulated to comply with all requirements of ASTM C-881; "Epoxy Resin - Base Bonding Systems for Concrete" Type I, II, III and IV, Grade 2, Class B & C

Technical Properties

Appearance	Grey liquid of medium viscosity.
Specific Gravity @20 °C	1.45 ± 0.05 (mixed materials)
Pot-life @ 20 °C (ASTM C-881)	6 - hours
Open Time @ 20 °C	8-hours



Full Cure @ 20 °C	7-days
Elongation at break (ASTM D- 683)	3.8 %
Tensile Strength (ASTM D- 683)	20 N / mm ² .
Flexural Strength	45 N / mm ² .
Bond strength to concrete	3 N/ mm ² . (Concrete failure)
Bond Strength to steel	20 N/mm ² .
Compressive Strength (ASTM D-695)	75 N/ mm ² .
Water Absorption (ASTM D-570)	0.30 % (by weight)
Compressive Strength (ASTM C-597)	75 N / mm ² .
Coverage	3 – 5 m ² per Kg, this influenced with the condition of the substrate.

Guide for Applications

Surface Preparation

All surfaces shall be sound, clean and free from dust, grease & oils, curing compounds & mould releasing agents or other materials may make any de-bonding.

Mixing

Stir well each component well before use.

Pour all Component B: curing agent into component A: resin and mix well until homogenous consistency and grey colour is achieved.

Application

The mixed materials shall be applied into the prepared surfaces by brush or roller. The concrete shall be placed while the formed film is still tacky.

Do not pour concrete over JAZEBOND-EP dried layer, the substrate should be recoated.

Packaging

JAZEBOND – EP is supplied in two components; 3-Kg or 6-Kg kits.

Storage & Shelf-life

JAZEBOND – EP shall be stored in normal conditions away from any extreme temperatures, Shelf-life is 24-months if stored properly in well sealed containers.

Health & Safety

- JAZEBOND – EP is non-hazardous during handling, storage and use.
- For Ecology: Do not dispose directly to water or soil. Mix Component A and B, then wait till hardening and bury into landfill in accordance with the local regulations.
- Splashes on skin will be washed with water and soap.

JCC CONSTRUCTION CHEMICALS

The information herein is general information to assist our customers in determining whether our products are suitable for their specific applications. Our products are intended for sale to commercial and industrial customers. We require that customers should inspect and test our products before use to satisfy themselves as to the content and suitability for the application they intend to use our products for.

JCC endeavors to ensure that any advice, recommendation, specification of information in accurate and correct manner.