

JAZEBOND-HB

Synthetic Emulsion, Poly Vinyl Acetate, High Solids and high concentrated, High Hydrolysis – resistant, Cement & Concrete Modifier and Bonding Agent

Product Description

JAZEBOND-HB is a blend of synthetic emulsion, fine particle size, Poly vinylacetate, high concentrated, high performance cement & concrete modifying agent. It is formulated to improve workability & flow properties and reduce W / C ratio enabling more improvement of physical and mechanical properties. It has an excellent adhesion to aged concrete. It resists the hydrolysis after hardening and can be used for external & interior applications. It can be used as a primer for the aged and freshly laid concrete.

Uses

JAZEBOND-HB is formulated to improve waterproofing properties, tensile, flexural, adhesion & cohesion and curing properties while reducing shrinkage, bleeding, and cracks of cement – based compositions. So, it is suitable for:

- Protection of concrete substrate against carbonation.
- Protection of concrete against water & water soluble salts and atmospheric gases.
- Waterproof repairing & patching mortars.
- Waterproofing renders and abrasion resistant lining.
- Floor screed and toppings.
- Cement-based adhesives such as ceramic tiles adhesive & grouting.
- Waterproof masonry mortars
- Corrosion resistance for steel reinforcement.

Advantages

- Excellent adhesion.
- Improved chemical resistance.
- Improved resistance to cracking.
- Excellent waterproofing properties.
- Improved durability.
- Eliminates shrinkage and bleeding.
- Improves all physical and mechanical properties allowing to thin applications.
- Improved protection of background concrete against carbonation.
- It does not re-emulsify in the presence of water and in alkaline medium.
- Improved elasticity.
- Freeze-thaw stable.
- Improved abrasion resistance.
- Reduced W/C ratio and improved workability.
- Water-based, non-flammable, non-toxic and non-corrosive.

Standards

JAZEBOND-HP is formulated to comply with all requirements of:

- ANSI A 118.4
- ANSI A 136.1
- ASMT C- 631
- ASTM C-932 "Bonding Compound – Exterior use"

Technical Properties

Appearance	White milky liquid.
Specific Gravity @20 °C	1.01 ± 0.05



pH value
Mechanical Properties

7 – 8

The use of JAZEBOND-HP with the mixing water improves all mechanical properties of that mixes. The control mix consists of OPC and sand in a ratio: 1:3 and W/C = 0.4 while JAZEBOND-HP mix consists of the same OPC / sand ratio but the mixing water is contains JAZEBOND-HP in ratio 10 liters / 50 Kg cement and W/C ratio is 0.29. The following are the results after 28-days:

Property	Control Mix	JAZEBOND-HP Mix
Compressive strength (N / mm ²)	30	40
Tensile Strength (N / mm ²)	3	6
Flexural Strength (N / mm ²)	4.5	10
Shrinkage during cure (%)	6	0.02
Adhesion Bond: slant shear bond (N / mm ²)	3	20

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. Saturate substrate thoroughly. Steel reinforcement shall primed with JAZEcoat- EPZR (see separate data sheet)

Mixing

Mix JAZEBOND-HB and water prior the addition to the dry mix.

Application

Bonding Slurry

Bond slurry shall be used to achieve optimum properties for:

- Corrosion of steel reinforcement
- Waterproofing
- Bonding.

Bonding slurry mix design is:

OPC: 2-parts Water: one part JAZEBOND – HP : one part

Apply the bond slurry by brush through the open time: 1-hour. Apply the next application while the bonding slurry is wet (Wet on wet)

Mix the following design: OPC, sand, JAZEBOND – HB and water in a ratio:

50: 150: 10: as required respectively. Apply the repairing mixed onto the prepared & bond slurry in the required thickness up to 10 mm.

Cleaning

Clean all tools & equipment after finishing work immediately with water.

Packaging

JAZEBOND-HB is supplied in 20 liters in plastic jenkins, 200-liters in steel drums or 1000 liters in plastic load.

Storage & Shelf-life

JAZEBOND-HB shall be stored in normal conditions away from any extreme temperatures. Shelf-life is 12-months if stored properly in well sealed containers.

Health & Safety

- JAZEBOND-HB is water-based, non-flammable, non-toxic and non-corrosive.
- For Ecology: Do not dispose directly to water or soil. Mix with plenty amount of sand before this to comply 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.