

# ENEBOND EP

Epoxy-based concrete bonding agent

## DESCRIPTION

**ENEBOND EP** is a two component, solvent free, high strength, epoxy adhesive designed to provide superior bond over traditional methods, when bonding new cement-based objects to an old one. **ENEBOND EP** is suitable for horizontal, vertical and overhead applications, and has an extended pot life to allow of any associated formwork or reinforcement after application.

## USAGES

- Bonding old to new concrete
- Elimination of cold joints resulting from casting stops.
- As a primer for bonding cementitious repair materials (**PIOREP** range of products)
- Bonding of cementitious screeds to concrete substrates
- Applications that are subject to damp or permanent immersions of water
- Used to bond crack injection packers, and strip membranes systems

## ADVANTAGES

- Adhesive bond to concrete will always exceed the tensile strength of the host concrete
- Suitable for use on damp and dry concrete
- Non-flammable & remains tacky for 48 days
- Resistant to hydrolysis, used externally and internally.
- High mechanical properties
- Excellent bond to concrete, masonry, stonework, plaster and cement boards
- Solvent-free which allows it to be used to Polystyrene boards

## TECHNICAL DATA

### ENEBOND EP

### Typical values

Mixed Appearance

Grey liquid

Mixed Density  
(ASTM D1475)

1.17

Pot Life @30°C

3 – 4 hours

Flexural Strength

> 40 N/mm<sup>2</sup>

Bond Strength  
(ASTM C882)

10 N/mm<sup>2</sup>

Tack Free Time @30°C

8 – 10 hours

Full Cure @30°C

7 days

## USAGE INSTRUCTIONS

### 1. Surface preparation

All surfaces shall be sound, clean and free from dust, oil & grease or any contaminants that may affect the bond between the product and substrate. Metal surfaces shall be free from rust & scale and other contaminants. Absorbent surfaces shall be saturated thoroughly.

### 2. Priming

Priming is not required.

### 3. Mixing

Mix component A+B mechanically for 2-3 min until a homogenous consistency is achieved, and mix components entirely (do not mix materials partially)

### ENEBOND EP

### Coverage

ENEBOND EP

4-5 m<sup>2</sup>/pack/coat

### 4. Application

Apply **ENEBOND EP** well into a prepared surface using a stiff brush to give an even, continuous unbroken coating.

Allow **ENEBOND EP** to become tacky before applying new concrete, screeds, mortars, this is typically 5-7 hours at 25°C and 2-4 hours at 30°C.

Do not let **ENEBOND EP** to dry, otherwise it must be mechanically removed and applied again.

### 5. Curing

Allow **ENEBOND EP** to cure fully for 4-7 days before exposing to full mechanical, chemical or environmental conditions.

### 6. Cleaning

Clean all tools and application equipment with a suitable thinner immediately after use. Hardener or cured material can be only removed mechanically or by hand tools.

## PACKAGING

**ENEBOND EP** is supplied in 2.5 liters set, component A & B.

## HEALTH & SAFETY

Before applying **ENEBOND EP**, all safety protections should be worn during application, such as safety goggles and rubber gloves to avoid any harmful accidents.

If **ENEBOND EP** is splashed to skin, it must be removed, before it hardens, with resin removing cream follow by water and soap at once, and if to the eyes seek medical attention immediately.

## STORAGE & SHELF LIFE

**ENEBOND EP** shall be stored in its sealed container under dry and shaded place in a temperature from 10°C - 35 °C, shelf life of the material is 12-months.

### TECHNICAL SERVICE

The technical service department of Arkaz is available to assist in the correct and best use of our products, these resources and advice are at your disposal entirely without obligation.

Please contact:  
concretedoctor@arkaz.com

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