

ConBond EP

Epoxy Bonding Agent for Old to New
Concrete & Steel Reinforcement Protection

DESCRIPTION

ConBond EP is two component epoxy bonding agent for old to new concrete based on specially selected epoxy resins and hardeners. It is suitable for application of epoxy mortars to damp substrates.

USES

- For bonding of new concrete to existing concrete surface.
- For using as adhesive for vertical surfaces where mortar or concrete can be supported by form work.
- Adhesive for building extensions and repairs to concrete in factories, loading bays, bridges and roads.
- Adhesive for thin section screeds in for bridge decks, parking decks and industrial floors.
- Can be used to provide a damp-proof barrier within concrete matrix.
- For corrosion protection of reinforced steel.
- For grouting of horizontal anchor bolts.

FEATURES & BENIFITS

- Moisture tolerant.
- Excellent adhesion to the old substrate and fresh concrete.
- Excellent bond to damp or dry surfaces.
- High ultimate tensile strengths
- High ultimate lap sheer strengths
- Easy application

TECHNICAL DATA:

Mixing Ratio	: 2 Base:1 Hardener by Volume
Density Mixed	: 1.65 g/cm ³
Color: Base	: White
Hardener	: Transparent
Mixed	: White
Volume Solids	: 100%
Application Temperature	: 5 ^o C to 45 ^o C
Pot Life	: 35-45 minutes @ 20 ^o C
Consistency	: Brush Applied
Initial Hardness	: 24 Hours depending upon temperature
Full Cure	: 7 days
Maximum Overlay Temperature	: 90 minutes @ 20 ^o C
Store Conditions	: Store in cool & dry place
Application Temperature	: +5 ^o to +40 ^o C
Compressive Strength	: 50 N/mm ²
Flexural Strength	: 35 N/mm ²
Tensile Strength	: 20 N/mm ²
Adhesive Bond to Concrete	: Will exceed the tensile strength of the concrete

APPLICATIONS:

Surface Preparations:

All contacted surfaces must be free of oil, grease or other contamination which may prevent bond with the fresh concrete. Any, loose concrete should be removed prior to priming **ConBond EP**.

Mixing:

Base & Hardener cans should be stirred thoroughly to disperse any settlement. The entire hardener should be added to the base

container and mixed thoroughly for at least 3 minutes until a uniform color is obtained. Only mix that quantity of material, (usually one kit at a time), that can be used within the setting time.

Application:

Thoroughly mixed ConBond EP should be applied with a suitable stiff nylon-type brush at the rate of 2.5-3 m² Per Kg. in an even pattern over the substrate.

Fresh concrete should be placed to already applied ConBond EP within 90 minutes at 20⁰ C & within 60 minutes at 30⁰ C.

PACKAGING:

ConBond EP is supplied in 1 & 3 Kg. Pack

HANDLING & STORAGE:

ConBond EP has a shelf life of 12 months if kept in a dry cool place in the original packing.

HEALTH & SAFETY PRECAUTIONS:

Where temperatures is less than 5⁰ C or greater than 40⁰ C are encountered, contact our Technical Staff.

ConBond EP is toxic and flammable. Ensure the working area is well ventilated during application and drying. Avoid flame in the area of working. Protective gloves, goggles and clothing should be worn and avoid excessive inhalation & skin contact. Any contact with skin and splash into the eye, should be washed off with plenty of clean water. Where this occurs, seek medical advice before continuing use.

Cured ConBond EP is inert and harmless.

TECHNICAL SERVICES:

A trained RADIANT representative is available to assist in the preparation of specifications, and the resolution of concrete problems in the field.

Important Note:

RADIANT Construction Technologies manufactures wide range of construction chemicals, including admixtures, concrete repairing mortars, curing compounds, adhesives, concrete protection coatings, waterproof coatings, grouts & Tile Bond.

Separate Technical Data Sheets are available for these products.