



KEM BOND EP 2

Epoxy Resin Based Old to New Concrete Bonding Agent

Ref: CR/BA-V1-0713

Description

KEM Bond EP 2 is a two component water based epoxy resin bonding agent supplied in pre-weighed quantities ready for on-site mixing and use.

Uses

- For bonding old concrete to new freshly laid concrete & cement based repair products.
- Primer for epoxy coatings & flooring screeds.

Advantages

- Pre-weighed quantities reduce site errors.
- Forms excellent adhesive bond between old concrete and new concrete.
- Effectively seals old concrete surface against ingress of water, moisture, salts, etc; and provides waterproofing barrier for new concrete.

Typical properties

Pot life: 45 – 75 min @ 25°C.

Open Time: 2 - 8 hours depending on temperature and humidity @ 25°C & 50 % RH

Bond Strength: As per ASTM C-882-99 is more than 11.0 N/mm².

Initial Cure: 24 hours.

Full Cure: 7days.

Min. App. Temp: 5°C.

Standards

Meets requirements of ASTM-C 881/881M-2010 – Type II, III, & V Grade 2 - Class B&C Bond Strength as per ASTM-C 882 M – 2012.

Chemical resistance

Resistant to sewage water, fresh water seawater alkalis diluted acids mineral oils vegetable oils, fats, ammonia and formaldehyde.

Direction for use

Remove all grease, oil, chemical contamination, dust, laitance and loose concrete by scabbling or other nonimpact mechanical methods. Acid etching using mild acids may be done if above is not possible & Metal surfaces should be fully degreased & prepared by grit blasting surface finish. All reinforced bars should be coated with a corrosion resistant primer at the interface level. All freestanding water should be removed and the surface should be dewatered with some absorbent material.

Mixing: Thoroughly mix the total base and hardener components for 2-5 minutes, either using spatula or slow speed drill & paddle.

Application: After mixing, apply the mixed KEM Bond EP 2 immediately to the previously prepared concrete substrate using a short haired stiff nylon brush, thorough wetting of surface. New concrete must be laid whilst the coat of KEM Bond EP 2 is still tacky i.e. generally about 2 to 6 hours depending on temperature and humidity during this operation.

Packaging

It is available in 3 kg packs

Coverage

Coverage will vary depending upon substrate conditions.

Storage & Shelf Life

Storage: to be stored in dry condition up to 30°C.

Shelf Life: 12 months from date of manufacturer.

Technical service

Chembond has established itself in various fields on the basis of its dependable technical service. For this purpose, we maintain a well equipped laboratory for research & quality assurance of all products. Our experienced personnel are always on call & would always be available for product demonstrations & product performance monitoring.



Precautions

Cleaning: Spillages can be absorbed with sand or earth and disposed in accordance with local laws & regulations. Tools and equipment shall be cleaned with water immediately after use.

Storage & Shelf Life

Storage: To be stored in dry conditions upto 30°C.

Shelf Life: At least 12 months from date of manufacturer.

Health & safety

Uncured base & hardener shall not come into contact with skin and eyes or be swallowed. Prolonged inhalation of vapours shall be avoided. Protective gloves, goggles and barrier cream should be used. Adequate ventilation should be provided and in enclosed areas, suitable breathing apparatus is recommended. If this material comes in contact with skin, it must be removed before it gets dry by washing with soap and water. In case of contact with eyes, immediately flush with clean water preferably cold & seek immediate medical attention. If swallowed seek medical advice immediately. Do not induce vomiting

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