

Product Data Sheet
Edition 07.2014
Identification No. B A - 6 A



KEMBOND EP

Epoxy Resin New To Old Concrete Bonding Agent

Description

KEMBOND EP is a two-components epoxy adhesive based on selected solvent free epoxy system and formulated with special pigments and fillers. Ideal for bonding a wide range of building materials to one another eg. concrete, brick, metal, stone and wood. **KEMBOND EP** has a high level of mechanical integrity and exhibits excellent bonding characteristics even under damp conditions.

Standards :

complies with ASTM 881-78 type II, grade 2 class B+C.

Where to use

KEMBOND EP used for bonding new to old concrete and can be used on horizontal and vertical surfaces, it provides a bond strength greater than concrete tensile strength itself. It can be used as a bonding agent on steel, mortar and iron.

Advantages

KEMBOND EP provides the following advantages :

- Excellent adhesion to concrete and steel.
- Can be used on damp or dry surfaces.
- Pre-packed in an easy-to-handle pack.
- Prolonged pot life to allow time for form making.
- High tensile strength.
- Thixotropic nature facilitates application in both vertical and overhead locations.
- Very good chemical properties and cohesive strength.

Properties

Physical properties

Density	1.2±0.02 kg/lit
Pot Life@ 23°C	3-4 hr.
Initial Hardness	1 days
Full Cure	7 days

Mechanical properties:

After 7 days cured at 23°C and R.H. of 50%:

Compressive strength	50-60 N/mm ²
Flexural Strength	30-35 N/mm ²
Tensile Strength	18-20 N/mm ²
Shear Strength	24 N/mm ²
Bond strength to concrete	2.5 -3 N/mm ²
Bond strength to steel	18 -20 N/mm ²

How to use

Surface preparation:

- Old substrates must be clean, dry and sound.
- Remove all traces of laticence by sandblasting, scrapers or power steel brushes.
- Surfaces contaminated with oil or grease should be cleaned using a special degreasing agent with water or steam cleaning.

Mixing:

- Care should be taken to ensure that **KEMBOND EP** is thoroughly mixed.
- The hardener and resin must be stirred separately before mixing to disperse any settlement.
- Add the hardener into the resin container and then thoroughly mix using a low electric drill or manually until obtaining a uniform Color using a low speed mixer or manually.

Application :

- Use the fresh mix as soon as possible directly to the prepared substrate using brush, roller or Airless spray and always apply new concrete within 3 hr. at 23 °C and 1 hr. at 40 °C or as long as the material still tacky.

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- If the maximum overlay time is missed, then **KEMBOND EP** must be mechanically removed and fresh application made.

Cleaning:

Clean all tools and equipment immediately after use with organic solvent (thinner).

Theoretical Coverage :

0.3-0.5kgm /m².(depending on substrate conditions)

Packaging:

1,5Kg Two pack (A+B).

Shelf life Storage:

KEMBOND EP Shelf life at least 12 months, in original sealed containers, also it must be Protect from direct sunlight.

Health and Safety

- **KEMBOND EP** is non-toxic if come in contact with skin.
- Use gloves to avoid contact with skins.
- If skin comes in contact, wash immediately with soap and water.
- Do not use solvents.
- Eye contamination must be immediately washed with water, then seek medical treatment.

Additional Information

PROKEM provides the construction industry with a comprehensive range of construction chemicals and specialty products answering the queries of modern engineers for trouble free durable structure.

PROKEM designs tailor made products should there be critical application that requires specific properties rather than our main range. For our customer's satisfaction, **PROKEM** extends technical services to include after sales support to assist users in a proper handling of our products.