

Product Data Sheet  
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## 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, it complies with ASTM 881-78 type II, grade 2 class B+C.

### Where to use

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

- 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.

### Properties

#### Mechanical properties:

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

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

#### Physical properties

Pot Life@ 23°C	3-4 hr.
Initial Hardness	1 days
Full Cure	7 days

### 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:

- Add the hardener into the resin container and then thoroughly mix using a low electric drill or manually until obtaining a uniform colour using a low speed mixer or manually.
- Mixing ratio (1:1) parts by weight.

#### 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.

#### Cleaning:

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

#### Theoretical Coverage :

0.3 – 0.5 kgm /m<sup>2</sup>·(depending on substrate conditions)

#### Packaging:

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

#### Storage:

KEMBOND EP has a shelf life of 12 months if kept in original packaging in a dry condition.

### Health and Safety

- 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.
- Working areas should be well ventilated.

### 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 when there is critical applications that require specific requirements. For our customer's satisfaction, PROKEM extends technical services to include after sales support to assist users in a proper handling of our products.