



# KEM BOND AR

## Acrylic Bonding Agent

Ref. CR/BA-V1-0112

### Description

KEM Bond AR is a latex modified acrylic compound made from selected synthetic copolymers to meet various application needs. It provides a waterproof barrier coat to protect and repair RCC and steel structures.

### Uses

- Waterproofing underground structures, water retaining structures, terraces, parapets, bathrooms and sunken portions of toilet blocks
- Bonding new concrete to old concrete
- Fixing ceramic tiles, floor screeding and mosaic tiling
- Crack repair and porous surface sealing
- Avoiding conditions created due to breeding of termites
- For ensuring healthy conditions and eliminating discomfort.

### Advantages

- Excellent adhesion to most building substrates
- Improves flexural, tensile, and thin section fragility of cementitious systems
- Allows breathing, thus preventing peeling and scaling
- Gives a tough, hardwearing surface with effective waterproofing
- Reduces chloride salt penetration in marine environment
- Resists carbonation effect
- Improves bond strength with steel
- Resists water pressures up to 5 bars
- Self-curing

- Increases overall structural durability
- Is resistant to salts, mild acids and strong alkalis between pH range 4 and 14
- Is non-toxic and thus can be used for coating structures storing potable water.

### Typical Properties

**Colour** : Milky white

**Form** : Liquid emulsion

**Application Temp.** : > 50°C

**Service Temp.** : - 40°C to + 90°C

**Pot Life** : Approx. 30 minutes

**Sp. Gravity** : 1.02 ± .01

**Ph** : 7 - 9

**Consistency** : Mortar type

**Water Absorption to ANSI A 118.4 (F - 7):** 3.2%

**Compressive Strength:** ASTM C 109 - 38 N/mm<sup>2</sup> @ 28 days

**Bond Strength to ANSI A 118.4 (F 8.2.5):** 3.5 N/mm<sup>2</sup>

### Standards

Confirms to the performance requirements of ANSI A 118.4, ANSI A 118.1 and ANSI 136.1.

### Direction for use

Surface preparation is vital for effective adhesion and bonding of KEM Bond AR. To start with, free the surface from laitance, loose dust particles, oil, grease and other dirt. Then:

Weigh out 1 kg of KEM Bond AR in a plastic container of 2 litre capacity.

Weigh out 1 kg of ordinary Portland cement from a bag of fresh cement.

Add the cement gradually to KEM Bond AR with constant stirring. Ensure there is no formation of lumps. Stir constantly until all the cement has been added to KEM Bond AR and slurry of uniform consistency is achieved.



Apply this slurry on the substrate using a soft 4-inch wide paint brush. Apply the slurry in one direction only.

Take extra care when attending to construction joints and honey combed surfaces.

Cover all voids, holes or pores with the slurry.

### Coverage

1 kg KEM BOND 50 covers 30-35 sq.ft.

### Packaging

25 Kg

### Storage and Shelf life

Away from direct sunlight.

12 months from manufacture

### Safety precautions

KEM Bond AR is non-toxic, non-flammable and non-hazardous. However, any splashes on any part of the human body must be washed with plenty of water.

| Applications          | Mixing Properties |                      |               |                | Consistency |
|-----------------------|-------------------|----------------------|---------------|----------------|-------------|
|                       | Cement (In kgs)   | Kem Bond AR (In kgs) | Sand (In kgs) | Water (In Ltr) |             |
| Bond Coat / Injection | 1.5               | 1                    | -             | -              | Brushable   |
| Repair Mortar         | 5                 | 1                    | 15            | To Adjust      | Trowelable  |

### 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 and would always be available for product demonstrations and product performance monitoring.

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