

### Product Description

Techno Bond AR Std. is a single component latex acrylic polymer emulsion used as bonding agent cum cement modifier with waterproofing property.

### Uses

- For improving and bonding floor toppings, mortars and renders
- As a bonding agent for cementitious mortars
- Polymer modified mortars and screeds for reinstatement of worn out/damaged concrete
- Polymer modified concrete for improving the impermeability and there by enhancing the waterproofing property

### Advantages

- Good adhesion - Provides good bonding to concrete, masonry, stone work, plaster and block work.
- Increased strength - Improves tensile and flexural properties of mortar.
- Versatile - Compatible with all common hydraulic cements. User friendly - application by brush/spray
- Improves cohesion - No bleeding and segregation

### Mixing

As a cement modifier:

1 litre Techno Bond AR Std. : 5 kg cement : 15 kgs graded quartz sand.

As a bonding agent:

0.5 part cement : 1 part Techno Bond AR Std. by weight.

As waterproofing agent:

2-5% of Techno Bond AR Std. shall be mixed with concrete by weight of cement.

### Properties

Colour	Milky White Liquid	
pH	9 - 10	
Mechanical Properties	Control	Techno Bond AR Std
Compressive strength @ 28days (ASTM C109) (N/mm <sup>2</sup> )	18 - 20	22
Flexural strength @28 days (ASTM C348)	3.0	5.0
Adhesion to concrete (ASTM C882) (Slant shear)	3.5	5.0

### Application Instructions

#### Surface preparation

The object of the surface preparation is to achieve a clean sound surface with a good mechanical key. All substrates should be cleaned and free of dust, plaster, oil, paint, grease, corrosion deposits, and any other deleterious substances. Laitence should be removed by mechanical means. Oil or greasy deposits should be removed by suitable means. All surfaces so treated should be thoroughly washed with clean water. Smooth substrates must be mechanically roughened e.g. by scabbling, needle gun or grit/ sand blasting to provide a mechanical key.

#### Concrete Repairs

Any reinforcing steel in the repair area should be exposed around its full circumference and cleaned to remove all loose scale and corrosion deposits and then primed with Techno Bar Coat EZP. All surface dust and debris shall be removed.

#### Priming

Immediately before priming, the concrete substrate should be thoroughly dampened with water and any excess being brushed off. Scrub Techno Bond AR Std. bonding aid into the substrate. Puddling of the emulsion to be avoided. The repair mortar/topping should be applied whilst the primer is still tacky. However a satisfactory bond can be achieved upto 15 mins. after application at 30 °C.

In order to obtain a smooth consistency mortar, the cement and sand must be dry mixed and then poured into the liquid with the required amount of water in the prescribed mix proportions.

## Limitations

As a bonding agent

Techno Bond AR Std. bonding agent may exhibit less overlay time at higher temperature. In such cases, overlay mortar shall not be applied when Techno Bond AR Std. bonding aid is totally dry.

Techno Bond AR Std. bonding aid when used as bonding agent cannot act as a barrier coat against ingress of chloride ions from the substrate.

## Packaging

1, 5 and 20 ltrs Pack

## Health & Safety

Cementitious mortars modified with Techno Bond AR Std. contain cement powders which, when mixed or become damp release alkalis which can be harmful to skin. During use avoid inhalation of dust and contact with skin and eyes. Wear suitable protective clothing, gloves and eye/face protection. Use of barrier creams provides additional skin protection. Should accidental skin contact occur, remove immediately with a resin removing cream followed by soap and water. Do not use solvent. In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice. If swallowed seek medical attention immediately – do not induce vomiting.

## Fire

Techno Bond AR Std is non-flammable

## Shelf Life

Techno Bond AR Std. bonding aid has a shelf life of 12 months at 30°C. Techno Bond AR Std. bonding aid should be protected from frost.

**Important:** Technokem products are guaranteed against defective materials and are sold subject to its standard terms and conditions of sale. It is the Customer's responsibility to satisfy themselves by checking with the Company whether the information is still current at the time of use. The customer must be satisfied that the product is suitable for the use intended. All products comply with the properties shown on current Technical Literatures. However, Technokem does not warranty or guarantee the installation of the products as it does not have any control over installation or end use of the product. All information and particularly the recommendation relating to application and end use are given in good faith.

### For Complaints/Suggestions:

Please write to our Customer Care Executive at

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