

# MIXBOND AC

Acrylic emulsion bonding agent for cementitious and repair mortars

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**Mixbond AC** is a single component white emulsion of milky appearance, based upon modified acrylic resins. It is formulated for use as a bonding agent for old concrete and new concrete. It is also versatile useful to modify cementitious mortars. The product is ready to use, has exceptional grab characteristics and develops a tenacious bond of Mixbond AC may be used in external or internal applications, it is not recommended for permanently wet or submerged service conditions.

## Appropriation

Bonding aid for new and old concrete / mortar

Repair and patching of concrete areas

Water resistant toppings

Bonding brick slips, tiles, stones, wall capping, re-pointing brick work and protection of concrete from dampness

Architectural panels, bridge decks and high way repairs

## Characteristics

Excellent adhesion to a wide range of cementitious substrates

Improves toughness and flexibility, reduces chance of cracking in mortars and screeds

Improves mortar tensile strength and impact resistance

Increases wear resistance and frost resistance

Suitable for interior and exterior applications

## Technical Data & Properties

Appearance: Milky white liquid

Composition: Acrylic resin

Adhesion to concrete (9BS6319): 5N/mm<sup>2</sup>

Specific gravity: 1.03 ±0.02

Application temp: above 5°C to 45°C

Service temp: 20°C to + 60°C

Solid content: 20 to 25%

Standards: The product is designed to comply with ASTM C932

## Product Management

Application procedure: Mixbond AC can be used neat or diluted with water. Levels quoted in the application section are given only as a guide. Dosage will vary depending upon the application.

As with all bonding mediums, the quality of surface preparation has a direct influence on the effectiveness and durability of the repair. Saw cut the perimeter of areas to be treated to a minimum depth of 15mm to avoid feather edging of the repair mortar. Loose, contaminated, or damaged concrete should be removed and the full circumstances of any corroded reinforcing steel exposed to reveal a gap of 20mm behind steel. Prior to application of the Mixbond AC, the substrate should be soaked with copious amounts of clean water for a minimum period of one hour. Remove standing surface water from flatwork.

Mixbond AC is applied by brush using a stippling action rather than a painting action and ensuring the surface is completely covered. The repair mortar should be applied whilst the primer is still tacky, reapplying as necessary to achieve this. Care should be taken not to over apply as excessive primer may cause high build applications to slip.

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Surface applied bonding agent, admixture for cementitious mortars

Mixbond AC may be spray applied as a curing aid to cementitious repairs. As a bonding agent, for cement screeds and renderings, plaster etc, the background must be sound since the adhesion of the mortar to the floor; wall or ceiling will only be as good as the substrate. Remove all flaking and cracking paint, plaster etc from the substrate. It must be stable thoroughly clean and free from oil, grease or any loose particles. Seal the surface using one part Mixbond AC with two parts of water. Allow this to dry, and then apply a bonding coat of one part Mixbond AC diluted with one part water. Screed, plaster or render on the tacky bonding coat using normal techniques. Cure cementitious screeds and renders properly.

As an admixture, Mixbond AC improves quality of mortar application, increases the mechanical strength of screeds, reduces shrinkage and has perfect adhesion even on smooth concrete. For maximum bond strength, add Mixbond AC@5ltr/100kg cement.

## Coverage

As a surface bonding agent: 6-7m<sup>2</sup>/ltr depend on the substrate

As a curing agent: 4-5m<sup>2</sup>/ltr

## Packing & Storage

Mixbond AC is available in 20kg and 200kg drums. For site installations or mass consumptions, deliveries shall be made in bulk custom-designed containers. Should be stored in cool, shaded and dry warehouses, similar to cement. Shelf life is 12 months when stored under cover, out of direct sunlight, protected from extreme temperatures and as per recommendations. In extreme tropical climate, the product must be stored in cooled ambience. Excessive humidity and over exposure to UV will result in the reduction of shelf life

## Health & Safety

Mixbond AC contains no hazardous substance. As with all construction chemical products, caution should always be exercised. Protective clothing such as gloves and goggles shall be worn whilst handling. Wearing long sleeve overall, safety shoes and face mask is recommended for maximum safety. Reseal all containers after use and ensure product is stored as instructed on the safety section of the labeling. Treat any splashes to the skin or eyes with fresh water immediately. Should any of the products be accidentally swallowed, do not induce vomiting, but call for medical assistance immediately. For more details, please refer to the MSDS released on each Fab product

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Technical information given in this datasheet is true and exact to the best of our knowledge, laboratory upshot and hands-on application. The datasheets of all products are revised/updated regularly and hence ensure that the latest release is used for reference and recommendation. The date of the publishing is as in this sheet. All data are mean of numerous tests, assessment and analysis conducted under laboratory ambience. Climatic disparity in temperature, humidity, etc. and porosity of substrate may impinge on the values.

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