

# ECMABOND 511

## Acrylic emulsion-based Mortar and screed modifier cum bonding agent

### Description

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ECMABOND 511 is a modified acrylic emulsion specially designed for use as a bonding aid and gauging liquid for cementitious systems. It is resistant to hydrolysis and can therefore be used for external applications. ECMABOND 511 is the recommended primer for the ECMAS cementitious repair system.

### Areas of application

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Recommended as a primer for ECMAS cementitious repair systems. For improving bonding floor toppings, renders, and mortars, repair of worn, damaged, or spalled concrete; polymer modified floor screeds.

### Advantages

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- Single component, gauged as required
- Excellent bond strength to concrete
- Gives weather-resistant mortar with improved Durability and impermeability to chlorides and other harmful agents.
- Provide waterproof screeds, plasters, and Permeability slurries
- Improve tensile and flexural strength properties.
- Compatible with all kinds of cement

### Surface Preparation

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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. Laitance should be removed by mechanical means.

Smooth substrates must be mechanically roughened e.g., by grinding, grit blasting, or by wire brush to provide an adequate key. Corroded reinforcing steel should be exposed around its full circumference and cleaned to remove all loose scale and corrosion deposits. It is always preferable to clean the steel to a bright condition. Use of emery cloth, grit, or sandblasting is recommended.



## Technical Specification

Improvements in mechanical properties of a 3:1 sand/cement mortar using ECMABOND 511.

Appearance	Milky Liquid	
Specific Gravity @27°C	1.020±0.02	
pH	>7.0	
Mechanical properties	Control	With ECMABOND 511
Compressive strength @ 28 days	34.5 N/mm <sup>2</sup>	40.0 N/mm <sup>2</sup>
Tensile strength @ 28days	4.0 N/mm <sup>2</sup>	4.5 N/mm <sup>2</sup>
Flexural strength @ 28 days	8 N/mm <sup>2</sup>	10.5 N/mm <sup>2</sup>

## Packaging

ECMABOND 511 is available in 20 Kg Buckets & 200 Kg Barrels.

## Shelf Life

ECMABOND 511 liquid has a shelf life of 12 months when stored in unopened containers under normal warehouse conditions.

## Storage & Handling

The material should be stored in Cool and Dry shades at temperatures between 5°C-30°C. Also, protect it from Direct sunlight. Please avoid stacking containers and handle them carefully during transport.

## Safety Precautions

Wear all PPEs at the time of application like Safety boots, Safety Goggles, Hand Gloves, and masks, and avoid direct contact with Skin and Eyes. Any direct skin contamination should be washed off immediately with soap and water.

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