

# MEGABOND ACR

## Acrylic Based Additive and Bonding Agent

### Description:

MEGABOND ACR is a synthetic rubber, styrene acrylic copolymer bonding agent which is used for cementitious systems as a bonding aid. It is resistant to hydrolysis and can be used for external application.

When mixed with cement mixture. It gives higher adhesion power to all surfaces, extra bonding strength, excellent plasticity, higher impermeability and flexure resistance, higher abrasion and acid resistance. MEGABOND ACR can be considered as a waterproof admixture when mixed with cement.

### Uses:

- Admixture for screed and cement mixes for repair, flooring and plaster.
- To prepare bonding slurry between old and new concrete.
- Stand-alone bonding agent for concrete mixes.
- Additive to enhance water proofing and flexibility for mortars.
- Additive to cementitious tile adhesives to improve flexibility and adhesion.
- Primer for cementitious concrete repair products.
- Can be added for mortar lining for areas subject to abrasive or chemical effect.

### Advantages:

- Improves the adhesion, flexural strength, bond strength and impact resistance for mortars and concrete.
- Increase flow consistency of the mix.
- Improves resistance penetration of chloride ions.
- Minimizes cracks in concrete, stucco and plaster
- Reduces permeability of cement mix.
- Improves chemical resistance.

### Instructions for Use:

#### Surface Preparation:

All surfaces should be sound, free from laitance, oil and grease. In case of hard or deep contamination,

surface should be cleaned by the use of mechanical scrubbing or grit blushing to reach a fresh clean exposed concrete surface.

For screed flooring application, substrates should be saturated with water to avoid possible absorption of water from the mix. Always apply bonding slurry to the substrate before pouring the screed. Ensure that the screed is poured while the bonding slurry is still fresh.

For concrete repair, be sure to remove all the damaged parts to ensure a sound substrate. Steel reinforcement should be protected by using LAVAFER OR LAVAZINC EP as protection against rust.

#### Mixing:

MEGABOND ACR is ready for direct use. The product must be diluted with water depending to application requirements.

#### Application:

##### Bonding Coating:

Objective:

Bond adhesion coat for concrete, brick and masonry surfaces, to accept cementitious renders, screeds or repair mixes. Waterproof slurry coating for concrete surfaces.

Mix Design:

Cement	50 Kg.
MEGABOND ACR	1-2 Kg/m <sup>2</sup>

##### Waterproof Slurry:

Objective:

Waterproof slurry for sealing basements, tunnels, reservoirs, pipes, areas where water seepage is undesirable, protection of metal against corrosion.

Mix Design:

Cement	50 Kg.
Sand 0-0.3 mm	25 Kg.
MEGABOND ACR	25 Lt.
Coverage	2-3 Kg/m <sup>2</sup>

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## Repair Mortars:

### Objective:

Trowelled repair mortars of plastic consistency to provide impact and abrasion resistant patching to flooring, stairways, walls, column, etc.

### Mix Design:

Thickness	15-25 mm	10-20 mm
Cement	50 Kg.	50 Kg.
Medium Sand	100 Kg.	100 Kg.
Gravel (3mm)	100 Kg.	50 Kg.
MEGABOND ACR	15 Lt.	10 Lt.
Water	7 Lt.	10 Lt.

## Polymer Concrete:

### Objective:

Production of flooring grade wet concrete mixes with improved adhesion and flexural strength, without excessive air entrainment.

### Mix Design:

20 – 30% MEGABOND ACR by weight of cement.

## Polymer Screeds:

### Objective:

Trowelled polymer screed of heavy duty and low permeability, laid at 10-25 mm thickness.

### Mix Design:

Cement	50 Kg.
Medium Sand	100 Kg.
Granite Chips (3mm)	100 Kg.
MEGABOND ACR	9 Lt.
Water	11 Lt.

*For further information or particular use, contact MATEX Technical Department.*

## **Standards:**

MEGABOND ACR conforms to:

- ASTM-C1059, TYPE 2

## **Packaging:**

MEGABOND ACR is supplied in 20 liter jenkins and 200 liter drums.

## **TECHNICAL PROPERTIES:**

Appearance	:	Milky liquid
Density	:	1.04 Kg/Lt.
Flammability	:	Non flammable
Solid Contents	:	42%
pH	:	9.8
Viscosity	:	3000-5000 cps @ 20°C
Temp. Resistance	:	-20°C to +90°C
Temp. of application	:	+5°C to +40°C

## **Coverage:**

MEGABOND ACR as a bonding agent covers 8-10 square meters per liter, depending on porosity of substrate conditions.

## **Storage:**

Store in original packing in dry conditions away from direct sunlight.

## **Cleaning:**

Clean all tools with water prior to full drying of product.

## **Shelf Life:**

MEGABOND ACR can be utilized within 12 months of production date if stored in proper conditions in unopened original packing.

## **Health and Safety:**

- Use goggles and gloves during application. Do not breathe vapor of products. Use only in well ventilated areas.
- Avoid contact with eyes or skin.
- In case of eye contact, flush thoroughly with plenty of water and seek immediate medical help.

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This technical data sheet is not considered as local building codes. It shall be used as general reference for the product, based on our current knowledge and experience. However the company do not accept any liability arising from the use of its products as it has no direct control on how and where the product is applied.

