

MEGABOND ACR

Acrylic Based Bonding Agent/Admixture

Description:

MEGABOND ACR is an excellent acrylic latex emulsion used for bonding new to new, or new to old concrete in interior or exterior applications. It is extremely effective when used as an admixture with cementitious products such as patching compounds, mortars, plasters, stucco.

MEGABOND ACR not only promotes a strong bond, but also improves the curing, long term durability, resistance to moisture and cracking of finished product.

Uses:

- Admixture for screed and cement mixes for repair, flooring and plaster to increase adhesion and reduce cracking.
- 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.
- 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.
- Improves resistance to abrasion and freeze thaw cycles.
- 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 on application requirements.

Into a clean mixing pail, pour MEGABOND ACR, as such or diluted as required. Slowly add the cement/sand mix to the liquid while mixing, using a low-speed mixer. Mix for 3-4 minutes, scraping the sides of container. Remix to a smooth homogeneous consistency. Do not overmix which may cause air entrapment and shorten the workable time.

Application:

Bonding Agent:

Objective:

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

Mix Design:

Cement	50 Kg.
MEGABOND ACR	1-2 Kg/m ²

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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 ²

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:

- ASTM-C1059, TYPE 2
- ASTM-C190

TECHNICAL PROPERTIES	
Appearance	Milky liquid
Density	1.01 ± 0.03 kg/lit
pH	9.0-10.0
Viscosity	2000-4000 cps@25°C
Temp. Resistance	-5°C to +80°C
Temp. of Application	+7°C to +40°C
Flammability	Non flammable

*Values indicated may vary depending on the environment and conditions of the material. Figures given are tested according to standard laboratory conditions.

Coverage:

MEGABOND ACR as a surface applied bonding agent covers 5-7 square meters per liter, depending on porosity of substrate conditions.

*Coverage rate is an approximate value, and subject to actual site conditions.

Packaging:

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

Storage:

Store in original packing in dry conditions away from direct sunlight. Damaged packaging, high humidity or extreme temperatures may reduce the shelf life. Store between 10°C to 30°C.

Shelf Life:

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

Cleaning:

Clean all tools with water prior to full drying of product. Hardened materials can only be removed mechanically.

MEGABOND ACR

Health and Safety:

- Avoid contact with eyes and skin. Wear suitable protective clothing such as coveralls, goggles, dust mask and gloves. Use barrier cream. Ensure that there is adequate ventilation. Do not breathe vapour or spray mist.

FIRST AID:

- Eyes: In the event of accidental splashes, flush with warm water and seek medical advice.
- Skin: Wash skin thoroughly with soap and water
- Inhalation: Remove to fresh air, keep patient rested
- Ingestion: Do not induce vomiting. Seek immediate medical attention.

For further safety information, please refer to MEGASEAL ACR Material Safety Data Sheet.

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