

# ENEBOND ACR

Acrylic emulsion hydrolysis-resistant cement, concrete modifier & bonding agent

## DESCRIPTION

**ENEBOND ACR** is acrylic emulsion, fine particle size, high performance cement and concrete modifier, it is designed to be used as a bonding aid, curing agent and gauging agent for concrete, enabling more improvement of physical and mechanical properties. It has an excellent adhesion to aged concrete, resists the hydrolysis after hardening and can be used for exterior and interior applications. It is mainly used as a bonding agent and curing agent for the freshly laid concrete.

## USAGES

- As an excellent old-new concrete bonding agent along with concrete repair compounds
- Protection of concrete substrate against carbonation and protection against water salts and atmospheric gases
- Waterproofing mineral sealing slurries in reservoir and water tanks
- Waterproof repairing and patching mortars renders and abrasion resistant lining
- Concrete repairs and floor patching where a highly flowable replacement materials and heavy-duty screed mortar is required

## ADVANTAGES

- Excellent adhesion
- Improved chemical and abrasion resistance
- Improved crack bridging of concrete
- Improved durability
- Improved protection against carbonation of concrete
- It does not re-emulsify in the presence of water and in alkaline medium
- Reduced W/C ratio and improved workability
- Water-based, non-flammable, non-toxic and non-corrosive
- Freeze-thaw stable
- Improves all physical and mechanical properties allowing to thin application

## TECHNICAL DATA

ENEBOND ACR	Typical values
Appearance	White milky liquid
Specific Gravity	1.01 ± 0.05
pH Value	7 – 8
Shrinkage during cure	0.02 %
Compressive Strength	30 N/mm <sup>2</sup> (control) 40 N/mm <sup>2</sup> (result)
Tensile Strength	3 N/mm <sup>2</sup> (control) 6 N/mm <sup>2</sup> (result)

## STANDARDS

**ENEBOND ACR** is formulated to comply with:

- ANSI A 118.4 and ANSI A136.1
- ASTM C-631 and ASTM C-932 Bonding compound-exterior use.

## USAGE INSTRUCTIONS

### 1. Surface preparation

All surfaces shall be sound, clean and free from dust, oil & grease or any contaminants that may affect the bond between the product and substrate. Metal surfaces protection coat shall be applied after eliminating all rust existing on the rebars, then it shall be free from dust & scale and other contaminants. Absorbent surfaces shall be saturated thoroughly.

### 2. Mixing

Dilute **ENEBOND ACR** with water by mixing before adding to any dry mix.

### 3. Application

- For screed & topping application
- Mix 1 liter of **ENEBOND ACR** with 3 kg of Portland cement and apply it on a cleaned surface using brush before 15 minutes of screed application
- For concrete repair exceeding 10 cm, follow screed procedures as mentioned above
- For mixing with dry mix materials follow the instruction as mentioned in method statement

### 4. Cleaning

**ENEBOND ACR** to be cleaned from tools and equipment after finishing work immediately by splashing water.

## PACKAGING

**ENEBOND ACR** is supplied in 20 liters & 200 liters pail.

## HEALTH & SAFETY

**ENEBOND ACR** is non-toxic and non-hazardous, if materials come in contact with skin; cleaning with water and soap is recommended.

## STORAGE & SHELF LIFE

**ENEBOND ACR** shall be stored in normal conditions away from any extreme temperatures. Shelf life is 12 months

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### TECHNICAL SERVICE

The technical service department of Arkaz is available to assist in the correct and best use of our products, these resources and advice are at your disposal entirely without obligation.  
Please contact:  
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