

## ReArm Bond AR 43

(Formerly known as MYK Bond AR 43)

Acrylic emulsion based Concrete Bonding Agent



### TECHNICAL DATA SHEET

#### Product Description

ReArm Bond AR 43 is a modified acrylic-based emulsion which is specially designed for use as a bonding agent or cementitious system, ReArm Bond AR 43 is acrylic emulsion based, used as a cement modifier when applied, provides good bond with masonry/cement and thus improves the tensile and flexural strength properties of the mortar.

#### Uses

- ReArm Bond AR is acrylic emulsion based, used as a cement modifier
- When applied, provides good bond with masonry / cement
- Improves the tensile and flexural strength properties of the mortar.

#### Features and Benefits

- Adhesion strength to the base concrete surface is distinctly improved
- The tensile and flexural strength increases in compared to the reference mix mortar
- Excellent bond to stone work plaster
- Compatible with all common hydraulic cements
- Economical to use.

#### Application Methodology

##### Step no 1: Surface Preparation

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. Oil or greasy deposits should be removed by suitable means. All surfaces so treated should be thoroughly washed with clean water. Smooth substrates must be mechanically roughened e.g. by scrubbing, needle gun or grit/ sand blasting to provide a mechanical key. Damaged Concrete repairs: Any reinforcing steel in the repair area should be exposed around its full circumference and cleaned to remove all loose scale and corrosion deposits (Recommended to use (ReArm Rust R / ReArm Rust C) and then primed with ReArm Bond AR 43. Remove all surface dust and debris. Priming Immediately before priming, the concrete substrate should be thoroughly dampened with water and any excess being brushed off. Scrub ReArm Bond AR 43 into the substrate. Avoid puddling of the emulsion. The repair mortar/topping should be applied whilst the primer is still tacky. However, a satisfactory bond can be achieved up to 15mins. After application at 25°C

##### Step no 2: Suggested design mix as a Mortar Modifier

OPC cement: 50 kg

Zone 2 river/ quartz sand: 150 kg

ReArm Bond AR 43 - 10 Kgs

Water Add sufficient water to give required consistency

**Note:** Trials are recommended to optimize mix designs.

##### Step no 3: Guideline for application in repairs

Prepare surfaces thoroughly as previously recommended, cut back edges to avoid featheredging. Prime all surfaces including edges, using ReArm bond AR 43.

All applications shall be wet on wet. For best results ReArm Bond AR 43 should be allowed to become tacky. If the bonding agent is allowed to dry for more than 15minutes at 30°C initial 'grab' to the repair mortar will be reduced. Therefore, the use of temporary shuttering is recommended. Water content of the mortar should be kept to the minimum necessary. For consistent results, the use of clean, Dry River / quartzs and is recommended. Where the use of wet sand is unavoidable, the quality of water to be added must be reduced. Cure mortars using ReArm Bond AR 43 to prevent rapid drying out. Protect uncured mortar from frost and rain. Do not remove mortar after initial set. Minimum application temperature for ReArm Bond AR 43 is 10°C, but the mortar should not be applied if the temperature is expected to fall. For permanently immersed conditions consult Local MYK Arment representative.

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### As a bonding agent

The bonding agent shall be ReArm Bond AR 43 an acrylic based emulsified solution containing a minimum of 43% solids and compatible with cementitious materials. The bonding agent shall provide adequate bond strength when directly applied on concrete and also mixed with neat cement. As a mortar modifier the mortar modifier shall be ReArm Bond AR 43, an acrylic emulsified cement modifier which provides good bond with concrete /masonry and improves the flexural strength, tensile strength properties of the mortar when added in the Specified quantities. It shall be compatible with all common hydraulic Cements

### Limitations

#### As a bonding agent

ReArm Bond AR 43 may exhibit less overlay time at higher temperature. In such cases as overlay mortar shall not be applied when ReArm Bond AR 43 is totally dry ReArm Bond AR 43 when used as bonding agent cannot act as a barrier coat against ingress of chloride ions from the substrate.

### Technical Data:

Basis	Modified acrylic emulsion
Color	Milky white emulsion
Sp. Gravity	Approx. 1.03 gm/cc @ 25°C

### Mechanical properties

Typical mechanical properties of 1:3 cement sand mortar at W/C - 0.45 for control and W/C - 0.35 for mortar containing ReArm Bond AR 43 (10kgs /50 kg cement). Tested in accordance with BS 6319 & wet cured. After 28 days

	Dry Cured		Wet Cured	
	Control	Typical Result	Control	Typical Result
Tensile Strength kg/cm <sup>2</sup>	40	45	30	35
Flexural Strength	70	85	80	75
Adhesion to Concrete	50	150		

### Coverage

As a bonding agent: approximate 4 - 5 m<sup>2</sup> / kg depending on substrate porosity



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#### Packaging

Available in 5 Kgs and 20 Kgs packing

#### Storage and Shelf Life

12 months if sealed pack and if stored in cool dry place under shaded area. And should be protected from frost.

Equipment cleaning immediately after use, wash all tools with clean water.

#### Health & Safety

ReArm Bond AR 43 is nontoxic. However, it should never be treatment. ReArm Bond AR 43 is slightly alkaline. Skin contact should be avoided. Gloves and protective clothing should be worn. ReArm Bond AR 43 is non flammable.

#### Product Categories Available



#### Legal Note

The information, and, in particular, the recommendations relating to the application and end-use of MYK Arment products, are given in good faith based on MYK Arment current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with MYK Arment's recommendations. In practice, the difference in materials, substrates and actual site conditions are such that no warranty in respect of merchant ability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application & purpose. MYK Arment reserves the right to change the properties of its products. the proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local product data sheet for the product concerned, copies of which will be supplied on request.