

MYK BOND AR 43

Acrylic emulsion based Concrete Bonding Agent

Technical Data Sheet

Description

MYK bond AR 43 is a modified acrylic based emulsion which is specially designed for use as a bonding agent or cementitious system, MYK 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.

Advantages:

- 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.

Technical Data:-

Properties

Basis : Modified acrylic emulsion
 Colour : Milky white emulsion,
 Sp. Gravity @ 25 °C : approx. 1.03 gm/cc

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 MYK bond AR 43 (10 kgs / 50 kg cement). Tested in accordance with BS 6319 & wet cured. After 28 days

.Mechanical properties

	Dry Cured		Wet Cured	
	Control	Typical Result	Control	Typical Result
Tensile Strength kg/cm ²	40	45	30	35
Flexural Strength	70	85	60	75
Adhesion to Concrete	50	150		

Application area:

As a bonding agent

The bonding agent shall be MYK 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 MYK 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

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 MYK Rustremover/ MYK Rust converter) and then primed with MYK Asocrete VK 2050. 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 MYK 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 15 mins. After application at 25 °C

Suggested design mix as a Mortar Modifier:

OPC cement : 50 kg
 Zone 2 river/ quartz sand : 150 kg

