



Nitobond® AR(M)

Acrylic emulsion cement modifier and water based concrete bonding agent

Uses

Recommended primer for Fosroc cementitious repair system. For improving and bonding floor toppings, renders and mortars; repair of worn, damaged or spalled concrete; polymer modified floor screeds.

Advantages

Simply brush onto concrete as a primer. Single component, gauged as required.

- **High adhesion** - Provides excellent bond to concrete, masonry, stone work, plaster and block board.
- **Increased strength** - Improves tensile and flexural properties of mortar. Allows thin section applications.
- **Versatile** - Compatible with all common hydraulic cements
- **Economical** - Economical to use

Description

Nitobond AR(M) is a modified acrylic emulsion specially designed for use as a bonding aid and gauging liquid for cementitious systems. It is resistant to hydrolysis and can therefore be used for external applications.

Nitobond AR(M) is the recommended primer for the Fosroc cementitious repair system.

Technical support

Fosroc offers a technical support service to specifiers, end users and contractors, as well as on-site technical assistance in locations all over the country.

Properties

Mechanical properties

Typical improvements in mechanical properties of a 1 : 3 sand/cement mortar using Nitobond AR(M)

Mechanical properties	Control	Nitobond AR(M)
Compressive strength (N/mm ²)	25	30
Flexural strength (N/mm ²) (B S 6319)	7	8
Adhesion to concrete Slant shear bond N/mm ² (BS 6319)	5	6

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Application instructions

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. Laitence 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 scabbling, needle gun or grit/ sand blasting to provide an mechanical key.

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 and then primed with Nitozinc Primer (M). 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 Nitobond AR(M) 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 upto 15 mins. after application at 30°C.

Typical Mix designs to modify mortars :

OPC	50 kg
Zone 2 sand	150 kg
Nitobond AR(M)	14 - 16 L
Water	Add sufficient water to give required consistency

Note : Trials are recommended to optimise mix designs.

Additional Guidance

Prepare surfaces thoroughly as previously recommended Cut back edges to avoid feather edging. Prime all surfaces including edges, using Nitobond AR(M).

All applications shall be wet on wet. For best results Nitobond AR(M) should be allowed to become tacky. If the bonding agent is allowed to dry for more than 15 minutes 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.

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For consistent results, the use of clean, dry sand is recommended. Where the use of wet sand is unavoidable, the quality of water to be added must be reduced.

Cure mortars using Nitobond AR(M) to prevent rapid drying out.

Protect uncured mortar from frost and rain. Do not retemper mortar after initial set.

Minimum application temperature for Nitobond AR(M) is 10°C, but the mortar should not be applied if the temperature is expected to fall.

For permanently immersed conditions consult Local Fosroc office.

Limitations

As a bonding agent

Nitobond AR(M) may exhibit less overlay time at higher temperature. In such cases as overlay mortar shall not be applied when Nitobond AR(M) is totally dry.

Nitobond AR(M) when used as bonding agent cannot act as a barrier coat against ingress of chloride ions from the substrate.

Equipment cleaning

Immediately after use, wash all tools with clean water.

Estimating

Packaging

Nitobond AR(M) is supplied in 1, 5 and 20 litre plastic containers.

Coverage

Approximately 6 - 8m²/ litre depending on substrate.

Storage

Shelf life

Nitobond AR(M) has a shelf life of 12 months at 30°C. Nitobond AR(M) should be protected from frost.

Precautions

Health & Safety

Nitobond AR(M) is non toxic. However it should never be ingested and if it comes into contact with eyes, wash immediately with plenty of water and seek medical treatment.

Nitobond AR(M) is slightly alkaline. Skin contact should be avoided. Gloves and protective clothing should be worn.

Fire

Nitobond AR(M) is non flammable.



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