



# Nitobond AR

## Acrylic emulsion cement modifier and concrete bonding agent

### Uses

Recommended primer for the 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 brushed onto concrete as a primer

Single component gauged as required.

**High Adhesion :** Provides excellent bond to concrete, masonry, stonework, plaster and blockboard.

**Long Open Time:** Excellent bond achievable several hours after application.

**Increased Strength:** Improves tensile and compressive properties. Allows thin section applications.

**Versatile:** Compatible with all common hydrolytic cements

**Cost Effective:** NITOBOND AR is economical in use.

**Aids Curing:** Used as a curing membrane NITOBOND AR reduces water loss and ensures good hydration.

### Description

NITOBOND AR is a modified acrylic emulsion specially designed for use as a bonding aid, curing agent and gauging liquid for cementitious systems. It is resistant to hydrolysis and can therefore be used for external applications.

NITOBOND AR is the recommended primer for the FOSROC CEMENTITIOUS REPAIR SYSTEM.

### Properties

#### Mechanical Characteristics

Typical improvements in mechanical properties of a 3:1 sand/cement mortar using NITOBOND AR.

	Curing Conditions	Control	NITOBOND AR
Compressive Strength N/mm <sup>2</sup> (B.S 6319)	Dry	35	40
	Wet	30	30
Tensile Strength N/mm <sup>2</sup> (ASTM C 109)	Dry	4.0	4.5
	Wet	3.0	3.5
Flexural Strength N/mm <sup>2</sup> (B.S 6319)	Dry	8.0	11.0
	Wet	7.0	9.0
Adhesion to Concrete - Slant Shear Bond N/mm <sup>2</sup> (B.S 6319)	Dry	5.0	20.0

**Curing Efficiency :** NITOBOND AR has a curing efficiency of 53% when tested in accordance with the propose British Standard.



NITOBOND AR being applied to the area repair.

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## Instructions For Use

### Preparation

The object of the preparations is to achieve a clean sound surface with a good mechanical key. All substrates should be clean and free of dust, plaster, oil, paint, grease, corrosion deposits, and any other deleterious substances. Excess laitance should be removed by mechanical means. Oil or greasy deposits can be removed with REEBEXOL SUPER : All surfaces to be treated should be thoroughly washed with clean water. Smooth substrates must be mechanically roughened e.g. by scabbling, needle gun or grid blasting to provide an adequate key.

Any 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 NITOPRIME ZINCRICH.

Remove all surface dust and debris.

### Priming

Immediately before priming, the concrete substrate should be thoroughly dampened with water with any excess being brushed off. Scrub NITOBOND AR 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 8 hours after application at 20°C

### General Recommendations

Prepare surfaces thoroughly as previously recommended. Cut back edges to avoid feather edging.

Prime all surfaces including edges.

All applications should be wet on wet. For best results the primer should not be allowed to dry. Water content designs should be kept to the minimum necessary.

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

Cure mortars using NITOBOND AR to prevent rapid drying out.

Protect uncured mortar from frost and rain.

Minimum application temperature for NITOBOND AR is 5°C but the mortar should not be applied if the temperature is expected.

## Equipment Cleaning

Immediately after use, wash all tools with clean water.

## Precautions

NITOBOND AR is non toxic. However it should never be ingested and if it comes into contact with the eyes, wash immediately with plenty of water and seek medical treatment. NITOBOND AR is slightly alkaline, skin contact should be avoided. Gloves and protective clothing should be worn.

## Fire

NITOBOND AR is non flammable

REEBEXOL SUPER is flammable, Flashpoint 48°C.

## Storage

12 months at 35°C. NITOBOND AR should be protected from frost.

## Packaging

20 litre plastic pails and 210 litre drum.

## Coverage

Approximately 6-8 m<sup>2</sup>/litre depending on substrate.

## Supply

Contact your local FOSROC office or representative

## Technical Service

The company provides a technical advisory service supported by a team of specialists in the field.



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## Additional Information

NITOBOND AR forms part of the FOSROC CONCRETE REPAIR SYSTEM.

The FOSROC CONCRETE REPAIR SYSTEM ensures a successful, economical solution to your concrete problem.

NITOPRIME ZINCRICH	Active anti-corrosion for steel reinforcement.
NITOBOND AR	Acrylic emulsion for printing and curing FOSROC cementitious mortars.
RENDEROC HB	Cementitious repair mortar for vertical and overhead repairs
RENDEROC S	Polymer modified high strength mortar for floor and structural repairs.
RENDEROC FC	Polymer modified re-facing mortar.
NITOCOTE DEKGUARD	Impregnating, breathable anti-chloride and anti-carbonation coating.

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## PT. Fosroc Indonesia

Jl. Akasia II Blok A8 No. 1  
Delta Silicon Industrial Park  
Lippo Cikarang  
Bekasi 17550  
Indonesia  
[www.fosroc.com](http://www.fosroc.com)

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**telephone:**  
+ 62 21 897 2103  
+ 62 22 520 1308  
+ 62 31 502 9142

**fax:**  
+ 62 21 897 21073  
+ 62 22 522 2713  
+ 62 31 502 2711

**email:**  
[indonesia@fosroc.com](mailto:indonesia@fosroc.com)

Registered Office: Jl. Akasia II Blok A8 No. 1, Delta Silicon Industrial Park, Lippo Cikarang, Bekasi 17550, Indonesia

