

# Nitobond AR\*



## Acrylic emulsion bonding agent for concrete repairs

### Uses

Recommended primer for the Renderoc Cementitious Repair System.

### Advantages

- Single component gauged as required
- Simply brushed onto concrete as a primer
- Provides excellent bond to concrete, masonry, stonework, plaster and blockboard
- Suitable for use in Middle East conditions
- Can also be used as a curing membrane for localised patch repairs
- Is economical in use

### Description

Nitobond AR is a modified acrylic emulsion, specially designed for use as a bonding aid and curing agent for concrete repair systems. It is resistant to hydrolysis and can therefore be used for external application.

### Standards compliance

BS 6920 - Approved for use with potable water

### Technical support

Fosroc offers a comprehensive range of high performance, high quality construction products. In addition, Fosroc offers a technical support package to specifiers, end-users and contractors, as well as on-site technical assistance in locations all over the world.

### Properties

#### Adhesion to concrete - Slant shear bond test (BS 6319 Pt 4; 1984)

Control	:	5.0 N/mm <sup>2</sup>
Typical result with AR	:	20.0 N/mm <sup>2</sup>

#### Curing efficiency

BS 7542: 1992	:	> 55%
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### Instructions for use

#### Surface preparation

Clean the surface and remove any dust, unsound or contaminated material, plaster, oil, paint, grease, corrosion deposits or algae. Where breaking out is not required, roughen the surface and remove any laitance by light scabbling or grit-blasting.

Expose fully any corroded steel in the repair area and remove all loose scale and corrosion deposits. Steel should be cleaned to bright condition paying particular attention to the back of the exposed steel bars. Grit-blasting is recommended for this process.

#### Reinforcing steel priming

Apply one full coat of Nitoprime Zincrich\*\* to all exposed steel reinforcement and allow to dry prior to continuing. If any doubt exists about having achieved an unbroken film, a second application should be made and allowed to dry prior to continuing.

#### Application of bonding aid

The substrate should be thoroughly soaked with clean water with any excess removed prior to commencement of the works.

Scrub Nitobond AR into the substrate, avoid ponding and remove any excess. The repair mortar or topping should be applied whilst the primer is still tacky.

#### Curing

Cure the repair mortar or topping using Nitobond AR to prevent rapid loss of water. In severe drying conditions additional curing methods may be necessary. Protect uncured mortar from frost and rain.



## Cleaning

Nitobond AR should be removed from tools, equipment and mixers with clean water immediately after use. Cured material can only be removed mechanically.

## Limitations

Nitobond AR mortars, toppings and renders should not be used when the temperature is below 5°C and falling. Neither should they be exposed to moving water during application. Exposure to heavy rainfall prior to the final set may result in surface scour. If any doubts arise concerning temperature, application or substrate conditions, consult the local Fosroc office.

## Estimating

### Supply

Nitobond AR	:	1 and 5 litre cans
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### Coverage and yield

Nitobond AR	:	6 - 8 m <sup>2</sup> / litre as a primer
		4 to 5 m <sup>2</sup> /litre as curing agent

## Storage

### Shelf life

All products have a shelf life of 6 months at 20°C if kept in a dry store in the original, unopened containers.

## Precautions

### Health and safety

Cementitious mortars modified with Nitobond AR contain cement powders which, when mixed or become damp release alkalis which can be harmful to skin. During use avoid inhalation of dust and contact with skin and eyes. Wear suitable protective clothing, gloves and eye/face protection. The use of barrier creams provide additional skin protection. Should accidental skin contact occur, remove immediately with a resin removing cream followed by soap and water. Do **not** use solvent. In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice. If swallowed seek medical attention immediately - do **not** induce vomiting.

### Fire

Nitobond AR is non-flammable.

\* Denotes the trademark of Fosroc International Limited

† See separate data sheet



Al Gurg Fosroc LLC

P. O. Box 657  
Dubai  
United Arab Emirates

TEL : (04) 285 8606  
FAX : (04) 285 9649

## REGIONAL SALES OFFICES IN :

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