



# Nitomortar FC\*

## Epoxy resin fairing coat and filler

### Uses

Nitomortar FC is designed for application to minor imperfections in concrete surfaces.

It is suitable for application from a feather-edge to 3 mm, and can be used in the following situations:

- Filling pinholes prior to overcoating with Nitocote\*† or Nitoflor\*† products
- General reprofiling over large areas, up to 3 mm depth
- Sealing of surface cracks in preparation for crack injection

### Advantages

- **Cost effective** - reduces usage of subsequent coatings
- **High performance** - excellent chemical resistance, strong adhesion to concrete substrate
- **User friendly** - easy to apply and finish, manufactured to meet local conditions

### Description

Nitomortar FC(B) is a two component thixotropic, solvent free, compound based upon epoxy resins, graded fillers and thixotropic agents.

It is applied directly to concrete substrates without the use of a primer, and cures to a surface ready for over coating.

The base component is light grey coloured and the hardener black to ease identification of uniform mixing.

### Properties

<b>Solids by weight</b>	: 100%
<b>Compressive strength</b>	: 70 N/mm <sup>2</sup> @ 7 days
<b>Pot life</b>	: 4 hours @ 25°C : 1½ hours @ 35°C
<b>Drying time</b>	: 10 hours @ 25°C : 4 hours @ 35°C
<b>Overcoating time</b>	: After 24 hour curing period
<b>Colour</b>	: Grey
<b>Chemical resistance</b>	: Resistant to oils, fats, petrol, salt & sugar solution, bleach, dilute mineral acids, alkalis and various solvents

## Technical support

Fosroc offers comprehensive technical support service to specifiers, end users & contractors. It is also able to offer on-site technical assistance, AutoCAD facility & dedicated specification assistance in locations all over the world.

## Instructions for use

### Preparation

Concrete surfaces should be clean, dry and free from laitance. Sandblasting or mechanical wire brushing may be necessary.

### Mixing

Care should be taken to ensure that Nitomortar FC is thoroughly mixed to produce a fully homogeneous paste. The 'hardener' and 'base' components should be stirred thoroughly in order to disperse any settlement before mixing them together. The entire contents of the 'hardener' should be emptied into the 'base' container and the components mixed together using a Fosroc mixing paddle attached to a slow-speed (400/500rpm) heavy duty drill, until a uniform grey colour and consistency is obtained. Mixing of 1 kg packs can be done by hand but care must be taken to ensure homogenous mixing. Under no circumstances should part packs be used, or part mixing be attempted.

### Application

Due to the easy workability of the product, a variety of instruments such as trowel, scraper, filling knife and squeegee can be used. After mixing, material can be taken directly from the can, or subdivided onto spot boards for individual applicators. Nitomortar FC can be overcoated with all epoxy coatings after a minimum curing period of 24 hours. Prior to overcoating, the surface of the fully cured Nitomortar FC should first be abraded to assist adhesion, and then cleaned to a dust-free finish.

### Cleaning

Nitomortar FC should be removed from tools, equipment & mixers with Fosroc Solvent 102\*† immediately after use. Hardened material can only be removed mechanically.

### Limitations

- Do not mix part packs under any circumstances
- Nitomortar FC should not be exposed to moving water during application
- Exposure to heavy rainfall prior to final set may result in surface scour

If any doubt arises concerning temperature or substrate condition, consult the local Fosroc office.

# Nitomortar FC\*

## Estimating

### Supply

<b>Nitomortar FC</b>	:	1 & 3 kg packs
<b>Fosroc Solvent 102</b>	:	4 & 20 litre cans

### Coverage & yield

Coverage of Nitomortar FC is wholly dependant upon surface conditions, site trials are therefore recommended to ascertain actual usage on uneven substrates. As a guideline when applied at 200 microns dft coverage is approximately 5 m<sup>2</sup>/litre.

### Storage

12 months if kept in unopened tins and stored in a dry place away from direct sunlight. Store in dry conditions in the original, unopened containers. If stored at high temperatures the shelf life may be reduced to 4 - 6 months.

### Precautions

#### Health and safety

Nitomortar FC and Fosroc Solvent 102 should not come in contact with skin or eyes, or be swallowed. Ensure adequate ventilation and avoid inhalation of vapours. Some people are sensitive to resins, hardeners and solvents. Wear suitable protective clothing, gloves and eye/face protection. If working in confined areas, suitable respiratory protective equipment must be used. The use of barrier creams provides 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 eye, rinse immediately with plenty of clean water and seek medical advice. If swallowed seek medical attention immediately - do not induce vomiting. For further information, refer to the product materials safety data sheet.

#### Fire

Nitomortar FC is non-flammable. Fosroc Solvent 102 is flammable. Keep away from sources of ignition. No smoking. In the event of fire extinguish with CO<sub>2</sub> or foam. Do not use a water jet.

#### Flash point

<b>Fosroc Solvent 102</b>	:	33°C
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#### Important note

Fosroc products are guaranteed against defective materials and manufacture and are sold subject to its standard Conditions for the Supply of Goods and Service.

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Fosroc is one of the world's major manufacturers of advanced technology chemical based products for the construction and refurbishment industries. It operates internationally through a network of operating companies, licensees, distributors and agents.

Having over 70 years experience and using global resources for research and technical development, Fosroc has built a substantial worldwide reputation in manufacturing the most comprehensive range of high performance construction chemicals:

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- Surface treatments
- Grouts and anchors
- Concrete repair
- Industrial flooring
- Protective coatings
- Joint sealants
- Waterproofing
- Adhesives
- F.R.P Structural Strengthening
- Specific building products

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↑ See separate data sheet