

# 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 is a two component thixotropic, solvent free, compound based on epoxy resins, graded fillers and thixotropic agents. It is applied directly to concrete substrates, without 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.

### Design criteria

Nitomortar FC is designed for filling pinholes and surface irregularities in concrete prior to the application of subsequent coatings. It can be applied from a feather-edge up to 3 mm thickness.

For reprofiling or hole filling, with thicknesses in excess of 3 mm, it is recommended to use Nitomortar FC(B)\*.

### Properties

Solids by weight	: 100%
Compressive strength:	70 N/mm <sup>2</sup> @ 7 days
Pot life	: 4 hours @ 25°C 1 1/2 hours @ 35°C
Drying time	: 10 hours @ 25°C 4 hours @ 35°C
Overcoating time	: After 24 hour curing period
Colour	: Grey

Chemical resistance : **Resistant to oils, fats, petrol, salt and sugar solution, bleach, dilute mineral acids, alkalis and various solvents**

### 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 mixing paddle attached to a slow-speed (400/500rpm) heavy duty drill, until a uniform grey colour and consistency is obtained. Mixing of 1Ltr packs can be done by hand but care must be taken to ensure homogeneous 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 application.

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 and mixers with Nitoflor Sol\*\* immediately after use. Hardened material can only be removed mechanically.

#### Estimating

Supply	
Nitomortar FC	: 1.0 and 4.0 litre packs
Nitoflor Sol	: 5 and 25 litre cans

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## Coverage and yield:

Coverage of Nitomortar FC is wholly dependant upon surface conditions, site trials are therefore recommended to ascertain actual usage on uneven substrates. However, as a guideline, we can consider coverage as 0.33m<sup>2</sup>/litre at 3mm thickness and 1m<sup>2</sup>/litre at 1mm thickness.

## Storage

### Shelf life

12 months if kept in unopened tins and stored in a dry place away from direct sunlight.

### Storage conditions

Store in dry conditions in the original, unopened containers. If stored at high temperatures the shelf life may be reduced to 4 to 6 months.

### Limitations

- Do not mix parts 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.

## Precautions

### Health and safety

Nitomortar FC and Nitoflor Sol 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.

### Fire

Nitomortar FC is non-flammable.

Nitoflor Sol 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 points

Nitoflor Sol	:	33°C
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For further information, refer to the materials safety data sheet.



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