



# Nitoflor® FC170(S)

## High build two part polyurethane based floor coating system

### Uses

Nitoflor FC170(S) floor coating is used as a floor coating on cementitious floors to provide a dust proof and easily cleaned surface with resistance to penetration of oils, chemicals and liquids. Ideal for warehouses, garages, indoor car parks, light duty industries etc.

### Advantages

- **Hardwearing** : Good resistance to abrasion
- **Non-dusting** : Totally seals the concrete surface preventing dusting
- **Attractive** : Available in pleasing shades
- **Resistant to mild industrial chemicals** and thermal shocks

### Description

Nitoflor FC170(S) is a two part polyurethane based floor coating system. It has excellent adhesion to cementitious surfaces and when cured, forms a semigloss flexible film. It penetrates the surface to bind together the particles to produce a hardwearing surface. It is supplied in pre-weighed packs which require mixing on site.

Nitoflor FC170(S) floor coating is available in a range of colours.

### Technical support

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

### Properties

Recommended thickness per coat :

<b>Number of coatings recommended</b>	:	One coat in 500 microns thickness
<b>Pot life</b>	:	1 hour at 25°C 20 min. at 35 °C
<b>Full cure</b>	:	7 days at 25°C 4 days at 35°C
<b>Minimum application temp.</b>	:	15 °C

### Application instructions

#### Preparation

Substrate must be clean and free from oil contamination and in dry condition. All loose material should be swept away and excess laitance removed by using Reebaklens, cleaning and etching agent. Surface should then be washed off with clean water to provide a clean surface and allowed to dry overnight.

#### Mixing

Nitoflor FC170(S) flooring is supplied in two pre-weighed packs (base and hardener) which are ready for immediate on-site use. Part mixing of these components is not acceptable and will affect both performance and appearance of the finished floor.

Mixing should be carried out using either a forced action mixer; or a heavy duty, slow-speed drill fitted with a suitable mixing paddle. All such equipment should be of a type and capacity approved by Fosroc. The components should be mixed in a suitably sized mixing vessel.

#### Application

Once mixed, the material must be used within its specified pot life - see "Properties" section.

The material should be poured onto the prepared and primed substrate as soon as mixing is complete. It should be spread to the required thickness using a serrated trowel; with care taken not to overwork the resin, spreading evenly and slowly.

Immediately after laying, the material should be rolled, using a spiked nylon roller, to remove slight trowel marks, and to assist air release. The rolling should be carried out using a 'back and forth' technique along the same path. An overlap of 50% with adjacent paths is recommended.

Further light rolling may be required to remove surface imperfections, or for subsequent release of trapped air, but should be prior to the setting of the product

#### Limitations

- A minimum application temperature of 10°C should be observed at all times.
- Not recommended for immersed conditions.

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## Estimating

## Packaging

Nitoflor FC170(S) is supplied in 4.5 Ltr pack.

## Coverage

Nitoflor FC170(S) - 9m<sup>2</sup>/pack of 4.5 L at 500 microns

The theoretical coverage is 9 sq.m at 500 microns/coat (one coat application). However the practical coverage depends on texture and porosity of the surface and may be lower than theoretical coverage.

## Storage

Nitoflor FC170(S) floor coating should be stored in accordance with the statutory regulations with regard to highly flammable liquids and gases. Store in cool, dry place as material is very sensitive to moisture.

## Shelf life

6 months in unopened container at 30°C.

## Precautions

### Health & Safety instructions

Gloves and goggles should be worn while handling the materials. If contact with skin occurs, washing with detergent and water is suggested. Solvent should not be used. Direct contact with eyes will cause irritation and may cause serious damage if left untreated. Any eye contamination should be washed thoroughly with plenty of water and immediate medical treatment sought.

### Fire

Nitoflor FC170(S) floor coating is flammable. Adequate ventilation should be ensured and should not be used near a naked flame. Smoking is prohibited during handling / application of the product.

### Additional information

Fosroc manufactures a wide range of products which includes admixtures, surface treatments, grouts, anchors, repair mortars, fluid micro concretes, chemical resistant epoxy mortars in addition to comprehensive range of protective coatings. In addition, a wide range of complementary products are available. This includes joint sealants, waterproofing membranes and adhesives.

Separate datasheets are available on these products.

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### Important note :

Fosroc products are guaranteed against defective materials and manufacture and are sold subject to its standard terms and conditions of sale, copies of which may be obtained on request. Whilst Fosroc endeavours to ensure that any advice, recommendation specification or information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products whether or not in accordance with any advice, specification, recommendation or information given by it.

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