

Acrylic floor sealer and concrete curing membrane

Uses

To provide a sealing coat on cementitious floors and a dustproof and more easily cleaned surface with resistance to the penetration of various liquids. Ideal for dust proofing warehouses, garages, indoor car parks and light industrial buildings. It can also be used as a curing membrane on freshly placed concrete.

Advantages

- Simple brush or spray application
- Prevents dusting by sealing the surface
- Durable finish offers good resistance to abrasion
- Cures and seals the floor in a single operation

Standards compliance

Nitoflor FC100 complies with ASTM C309.

Description

Nitoflor FC100 single pack, penetrating synthetic acrylic coating has excellent adhesion to cementitious surfaces and, when cured, forms a semi-gloss flexible film.

It is supplied ready for use direct from the can and is available in a range of colours.

Specification

Floor sealer

The floor sealer shall be Nitoflor FC100, a single component, acrylic floor sealer. The sealer shall be applied in a minimum of two coats at a coverage rate of between 4 and 8m² per litre per coat.

Concrete curing membrane

The curing membrane shall be Nitoflor FC100 a single component acrylic sealer which complies with ASTM C309. The sealer shall be applied in one coat at a coverage rate of 4-5m² per litre.

Technical support

Fosroc offers a comprehensive range of high performance, high quality flooring, jointing and repair products for both new and existing floor surfaces. 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

The values given below are average figures achieved in laboratory tests. Actual values attained on site may show minor variations from those quoted.

Physical properties at 20°C

| | | |
|--------------------|---|------------------|
| Time between coats | : | 2 hours minimum |
| Initial hardness | : | 6 hours |
| Specific gravity | : | 0.98 - 0.99 g/cc |

Chemical properties

Nitoflor FC100 is resistant to a range of chemicals. For further information, contact the local Fosroc office.

Good housekeeping is essential in areas where chemical spillage is likely to occur. It is especially important that such spillage should not be allowed to dry since very much higher concentrations of chemicals may result.

Instructions for use

Preparation

New concrete floors

The product can be applied by roller or spray when the surface water has disappeared after the final finishing operation, or the following day while the concrete is still green. Nitoflor FC100 requires no preparation before application on new concrete floors, except when bleed water leads to laitance.

Old concrete floors

A sound, clean substrate is essential to achieve maximum adhesion. Dry removal of laitance by use of mechanical methods is preferable. Oil and grease penetration should be removed by the use of a proprietary chemical degreaser or by hot compressed air treatment.

Any damaged areas should be repaired using one of the Nitomortar range products.

Application

Nitoflor FC100 can be applied by brush, spray, squeegee or roller. A continuous coating of uniform thickness should be achieved. A minimum of two coats are recommended. Allow at least two hours drying time between coats.

Cleaning

Nitoflor FC100 should be removed from tools and equipment using Nitoflor Sol* immediately after use.

Nitoflor FC100

Maintenance

The service life of a floor can be considerably extended by good housekeeping practices. Regular cleaning of Nitoflor FC100 may be carried out using a rotary scrubbing machine with a water miscible cleaning agent, or by hot water washing at temperatures up to 50°C.

Limitations

- The durability of Nitoflor FC100 is reduced in areas of very heavy foot traffic such as around work benches, drinks machines, doorways etc. It is advisable to either:
 - a) Specify additional coats in such areas or
 - b) Specify a higher build system such as Nitoflor FC150** in such areas.
- Nitoflor FC100 is not suitable for use in areas where hydro-carbon or solvent spillage is likely to occur.

Estimating

Supply

| | | |
|----------------|---|----------------|
| Nitoflor FC100 | : | 20 litre packs |
| Nitoflor Sol | : | 5 litre cans |

Coverage

| | | |
|----------------|---|--------------------------------|
| Nitoflor FC100 | : | 4-8 m ² /litre/coat |
|----------------|---|--------------------------------|

Note: The coverage figures given are theoretical – due to wastage factors and the variety and nature of possible substrates, practical coverage figures will be reduced.

Storage

When stored in dry conditions between 10°C and 30°C, away from sources of heat and naked flames, in the original unopened packs, Nitoflor FC100 has a shelf life of 12 months. If stored at high temperatures the shelf life will be reduced.

Nitoflor FC100 should be protected from frost.

Precautions

Health and safety

Nitoflor FC100 and Nitoflor Sol should not come in contact with skin and eyes, or be swallowed. Avoid inhalation of vapour/spray. Use only in well ventilated areas. If working in confined areas, suitable respiratory protective equipment must be worn. Wear suitable protective clothing, gloves and eye/face protection. Barrier creams provide additional skin protection.

Should accidental skin contact occur, remove with a suitable skin cleanser, followed by washing with soap and water. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. If swallowed seek medical attention immediately – do not induce vomiting.

Fire

Nitoflor FC100 and Nitoflor Sol are flammable. Store in accordance with national and local fire prevention regulations. Keep away from sources of ignition. No smoking. In the event of fire, extinguish with CO₂ or foam. Do not use a water jet.

Flash points

| | | |
|----------------|---|------|
| Nitoflor FC100 | : | 40°C |
| Nitoflor Sol | : | 33°C |

Disposal

Spillages of component products should be absorbed onto earth, sand or other inert material and transferred to a suitable vessel. Disposal of such spillages or empty packaging should be in accordance with local waste disposal regulations.

For further information, refer to the Product Safety Data Sheet.

Nitoflor FC100

Additional information

Fosroc manufactures a wide range of complementary products which include :

- waterproofing membranes & waterstops
- joint sealants & filler boards
- cementitious & epoxy grouts
- specialised flooring materials

Fosroc additionally offers a comprehensive package of products specifically designed for the repair and refurbishment of damaged concrete. Fosroc's 'Systematic Approach' to concrete repair features the following :

- hand-placed repair mortars
- spray grade repair mortars
- fluid micro-concretes
- chemically resistant epoxy mortars
- anti-carbonation/anti-chloride protective coatings
- chemical and abrasion resistant coatings

For further information on any of the above, please consult your local Fosroc office - as below.

Nitoflor FC100

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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