

High performance epoxy resin floor coating



Uses

Nitoflor FC130 provides a dust-proof easily cleaned surface, resistant to most oils and liquids.

Suitable for use on walls and floors in warehouses, garages, light industrial and food processing areas, kitchens and other areas of pedestrian and light vehicular traffic.

Nitoflor FC130 can also be used as a coating and sealer for Cemtop industrial and commercial cementitious flooring systems. Refer to Cemtop data sheet for details.

Advantages

- Hard wearing — durable, low maintenance costs
- High resistance to a wide range of industrial chemicals
- Hygienic — impervious finish provides easily cleaned surface
- Attractive — available in a range of colours to improve the working environment

Description

Nitoflor FC130


Nitoflor FC130 is a two-component water dispersed epoxy resin coating system supplied in pre-weighed packs ready for on-site mixing and use. The cured film forms a hard, semi-matt seal to concrete and other substrates.

Nitoflor FC130 is available in a range of standard colours and is also available in a clear grade.

Standards compliance

Nitoflor FC130 complies with BS 476, Part 7: 1971 — Class 1 spread of flame.

Nitoflor FC 130 complies with EN1504-2: Surface protection systems method 6.1

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Fosroc Ltd Drayton Manor Business Park, Coleshill Road, Tamworth, B78 3TL, UK 09 DoP:UK09-05 0370-CPR-0845	
Nitoflor FC130	
EN1504-2: Surface protection systems method 6.1	
Adhesion strength by pull-off test	> 2.0 (rigid trafficked systems)
Chemical resistance	Class III: Average decrease < 50% Shore Hardness
Fire Classification	A2
Dangerous substances	Conforms to 5.3

Properties

The values given below are average figures achieved in laboratory tests at 20°C and 35°C. Actual values obtained on site may show minor variations from those quoted.

Physical properties

Nitoflor FC130	@ 20°C	@ 35°C
Pot life*:	2 hours	1 hour
Time between coats:	6 to 24 hours	4 to 16 hours
Initial hardness:	24 hours	16 hours
Full cure:	7 days	7 days
Dry film thickness (2 coats):	100 microns (approximate)	

* Note that after the pot life has expired, the material, although not hardened, increases in viscosity and the characteristics of the product change. Excess material should be discarded after this point.

Chemical properties

Nitoflor FC130 is resistant to a wide range of chemicals. Specific data is available on request.

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 will then result.

Application instructions

All coating work to be carried out in accordance with the relevant sections of BS6150:2006, Painting of Buildings - Code of Practice.

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Nitoflor FC130

Surface preparation

It is essential that Nitoflor FC130 is applied to sound, clean, dry substrates in order to achieve maximum adhesion between the floor coating and substrate.

Because Nitoflor FC130 is a relatively thin coating, the substrate must be fine textured. Any surface irregularities may show through causing excessive wear on high spots and changing the perceived colour of the coating.

New concrete floors

Unless specially water-reduced, the floor should be at least 28 days old and give a hygrometer reading not exceeding 80% RH when tested in accordance with BS 8203 Appendix A. Dry removal of laitance by light grit-blasting is preferable but, where this is not feasible, treat with Fosroc Acid Etch, followed by thorough rinsing with water and complete drying. Dust and other debris should then be removed by vacuum brush.

Old concrete floors

A sound, clean substrate is essential to achieve maximum adhesion. Light grit-blasting or acid etching should be carried out as for new concrete floors. Oil and grease penetration should be removed using a water miscible chemical cleaner.

Asphalt floors

Nitoflor FC130 can be applied to asphalt floors provided they are at least 6 months old.

Mixing

The individual components of the Nitoflor FC130 should be thoroughly stirred before the two are mixed together. The entire contents of the small container should be poured into the large container and the two materials mixed thoroughly for at least 3 minutes. The use of a heavy-duty slow speed, flameproof or air driven drill fitted with a mixing paddle is desirable.

Coating

The mixed Nitoflor FC130 should be applied to the prepared surface using a brush or lambswool roller. Ensure that the area is completely coated and that 'ponding' of the material does not occur.

The second coat may be applied as soon as the first coat has initially dried (typically 12 to 18 hours). The time will be dependent on the type of surface and the ambient conditions.

Good drying conditions are required to allow complete evaporation of the water as the resin cures. Adequate ventilation and air movement is necessary.

Use with Cemtop XD

Nitoflor FC130 can be used to overcoat Cemtop XD to provide a more easily cleaned, chemically resistant surface. Apply two coats of Nitoflor FC130 as described, the first of which must be applied within 6 hours after the installation of Cemtop XD.

Anti-slip finish

A fine textured anti-slip finish for Nitoflor FC130 may be achieved by the addition of one 0.9 kg sachet of Nitoflor FC Anti-slip Grains stirred in towards the end of the mixing process. (Note: This will reduce overall coverage rate.)

Cleaning

Nitoflor FC130 should be removed from tools and equipment with clean water immediately after use.

Maintenance

The service life of a floor can be considerably extended by good housekeeping practices. Regular cleaning of Nitoflor FC130 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.

Estimating

Supply

Nitoflor FC130:	5 kg packs
Nitoflor anti-slip grains:	0.9 kg pack

Coverage

Nitoflor FC130:	35 to 40 m ² /pack (per coat)
Nitoflor FC130 with Anti-slip Grains:	24 to 30 m ² /pack (per coat)

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

Limitations

Nitoflor FC130 should not be applied onto surfaces known to or likely to suffer from rising damp or have a relative humidity greater than 80% as measured in accordance with BS 8203 Appendix A or by a Vaisala thermohygrometer type HMI 31.

The durability of Nitoflor FC130 in foot traffic areas is reduced in areas of very heavy traffic such as around work benches, drinks machines, etc. It is advisable to specify additional coats in such areas.

The low odour characteristics of Nitoflor FC130 are not necessarily an indication of non-tainting characteristics. Where tainting of foodstuffs during application is possible we recommend separate tests are carried out in this instance, please contact the local Fosroc office.

Nitoflor FC130 should not be applied at temperatures below 10°C or where ambient relative humidity exceeds 85%.

The manufacture of Nitoflor FC130 is a batch process and despite close manufacturing tolerances variation may occur between batches. Fosroc recommends using material from one batch only as the finish topcoat.

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10
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Storage

Nitoflor FC130 should be stored in dry conditions between 10°C and 30°C, away from sources of heat and naked flames in the original, unopened packs. Material from different batches shall be stored separately.

Nitoflor FC130 has a shelf life of 18 months if kept in the above conditions. If stored at high temperatures the shelf life may be reduced. Nitoflor FC130 should be protected from frost.

Precautions

Health and safety

For further information refer to appropriate Product Safety Data Sheet.

Fire

Nitoflor FC130 is non-flammable.

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 authority regulations.

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

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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 Services, copies of which may be obtained on request. Whilst Fosroc endeavours to ensure that any advice, recommendation, specification of 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 of information given by it.

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