

Nitoflor FC150

Section A : General Comments

High temperature working

It is suggested that, for temperatures above 35°C, the following guidelines are adopted as good working practice:

- (i) Store unmixed materials in a cool (preferably temperature controlled) environment, avoiding exposure to direct sunlight.
- (ii) Keep equipment cool, arranging shade protection if necessary. It is especially important to keep cool those surfaces of the equipment, which will come into direct contact with the material itself.
- (iii) Try to avoid application during the hottest times of the day.
- (iv) Make sufficient material, plant and labour available to ensure that application is a continuous process.

Equipment

It is suggested that the following list of equipment is adopted as a minimum requirement

<i>Protective clothing</i>	:	Protective overalls
	:	Good quality gloves, goggles and face mask
<i>Preparation equipment</i>	:	Suitable equipment/materials to ensure proper preparation of the substrate (see section 1.0)
<i>Mixing equipment</i>	:	1 KW slow speed drill, 400 or 500 rpm, plus Fosroc mixing paddle and mixing vessel
<i>Application equipment</i>	:	Good quality painting brush
	:	Lambswool roller, or similar

Application - points of note

Fosroc operates a policy to encourage the use, where possible, of approved or licensed applicators. This ensures that repairs are completed satisfactorily so that the long-term performance of the materials is assured. For contractors who wish to apply the materials themselves Fosroc is also able to offer technical assistance and training, either on-site or at its Training Centre in Dubai

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Section B: Application Method

The prevailing relative humidity should not exceed 75% at **any stage** of the application.

1.0 Surface Preparation

- 1.1 New concrete, or cementitious substrates should be at least 28 days old and have moisture content not exceeding 5%.
- 1.2 Existing concrete floors, which require refurbishment, must be prepared to ensure a strong adhesive bond between the flooring system and the existing floor.
- 1.3 The substrate (new or existing) should be clean, sound and free from contamination such as mortar and paint splashes, curing compounds, oil and grease. Excess laitance deposits are best removed by light mechanical scabbling, grinding or grit/captive blasting followed by vacuum cleaning to remove dust debris. All preparation equipment should be of a type approved by Fosroc.

NOTE : It should be remembered that Nitoflor FC150 coating is relatively thin, and even minor substrate irregularities will be reflected in the finished floor. The substrate preparation should therefore be fine textured, unless otherwise indicated or instructed by the Engineer.

- 1.4 All blowholes and other surface undulations should be repaired with a proprietary, repair compound - consult the local Fosroc office for specific recommendations.
- 1.5 Oil and grease contamination must be completely removed by grinding down to sound, clean concrete. Alternatively, captive/grit-blasting techniques can be used to provide the required substrate.
- 1.6 Where these methods are considered impracticable, alternative methods may be considered but a clean, sound and dry substrate must still result. In particular it is essential that the substrate does not suffer from conditions of rising damp. Fosroc must approve any alternative preparations prior to commencement of work, as Fosroc will not accept responsibility under any other condition.

Priming

- 2.0 A properly prepared substrate does not normally require priming.
- 2.1 A porous substrate should be primed with Nitoprime SP. Refer to the Nitoflor FC150 data sheet for mixing instructions of the primer.
- 2.3 If any doubts exist about the quality of surface preparation, it may be advisable to complete a localized pull-off test, with Nitoflor FC150 applied to the substrate, to determine the actual bond strength between the two layers.

3.0 Mixing

- 3.1** Nitoflor FC150 flooring is supplied in three pre-weighed packs (base, hardener and colour pack), 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, and would furthermore automatically invalidate Fosroc's standard product guarantee.
- 3.2** The base and hardener components of Nitoflor FC150 should be thoroughly stirred.
- 3.3** The entire contents of the colour pot should be poured into the base container and the two materials mixed thoroughly.
- 3.4** Then add the hardener component and mix for 3-5 minutes until homogeneous. The use of a heavy-duty slow speed, flameproof or air driven drill fitted with a Fosroc Mixing Paddle (MR3) is desirable.
- 3.5** Mix these components in the quantities supplied taking care to ensure all containers are scraped clean. Do not add solvent thinners at any time.

**(Mix 1 colour pot of 0.35L with 4.15L pack of base & hardener
/ Mix 4 colour pots of 0.35L with 16.6L pack of base & hardener)**

4.0 Application

- 4.1** The applicator should ensure that there are sufficient supplies of plant, labour and materials to make the mixing and subsequent application process a continuous one for any given, independent floor area.
- 4.2** Once mixed, the material must be used within its specified pot life of 40mins @ 20°C and 20 mins @ 30°C.
- 4.3** The material should be poured onto the prepared substrate, as soon as mixing is complete, to the required wet film thickness of 200microns using a brush or lambswool roller, spreading evenly and slowly.
NOTE : For a final anti-slip floor finish, grains should be introduced after application of the base coat. Hence proceed to section 5.0 **before** applying subsequent coats as per paragraph 4.4 below.
- 4.4** Subsequent coats should be applied between the product's minimum and maximum over coating times of 12-36 hours @ 20°C or 5-15 hours @ 30°C.
- 4.5** Under no circumstances should subsequent coats be applied before the minimum over coating time, as the coating will not be able to sustain any trafficking at this stage.
- 4.6** If the maximum over coating time is exceeded, then the previous coat must be lightly abraded to provide a mechanical 'key' for the next coat.
- 4.7** Application of subsequent coats should again be completed using a brush or lambswool roller; with spreading at right angles to the previous coat to ensure a full, unbroken coating over the entire floor surface.

5.0 Anti-slip finish (optional)

- 5.1** If a slip resistant texture is required, the base coat should be applied at the minimum thickness of 250microns.
- 5.2** The base coat should be dressed with the chosen grade of Nitoflor Antislip Grain as soon as possible after laying.



constructive solutions

- 5.3** It is generally recommended to completely blind the base coat (i.e. apply excess quantity of antislip grains to completely cover the base coat), unless a fine texture is specifically required. If a fine texture, or less dense finish, is specifically required then grains can be spread lightly, but evenly, across the surface by hand or mechanical spreader.
- 5.4** Any excess grains should be removed by vacuum immediately before applying the second coat.
- 5.5** The second coat may again be applied by roller or brush, with care taken to ensure that a continuous film is achieved, and that the rough surface, caused by the grains, is completely sealed. It may be necessary, on coarser textured grains, to apply additional coats to ensure overall integrity of the finished system.

6.0 Floor Joints

- 6.1** All existing expansion or movement joints should be followed through the new floor surface.
- 6.2** Joint sealant & joint geometry should be compatible with the floor type used, intended exposure conditions and likely movement characteristics of the substrate - consult the local Fosroc office for more details.

Section C : Approval and variations

This method statement is offered by Fosroc as a 'standard proposal' for the application of Nitoflor FC150. It remains the responsibility of the Engineer to determine the correct method for any given application. Where alternative methods are to be used, these must be submitted to Fosroc for approval, in writing, prior to commencement of any work. Fosroc will not accept responsibility or liability for variations to the above method statement under any other condition.

