

# Fosroc® Nitoflor FC120 HB

## Floor coating, chlorinated rubber, UV stable, for trafficable floors and carparks

### Uses

Nitoflor FC120 HB is an economical surface treatment for concrete to protect against wear and is resistant to fuel and oil and yellowing from UV exposure. It is suitable for use in heavy traffic areas such as light industrial traffic, stairs, fuel station forecourts, driveways and parking stations.

### Advantages

- Economical and easy to apply
- Low maintenance
- Simple to recoat or touch up
- Has good wear resistance
- Reduces dusting of concrete floors
- Resistance to yellowing

### Description

Nitoflor FC120 HB is a decorative, wear resistant surface coating with a low gloss finish based on suitably chlorinated rubbers.

Nitoflor FC120 HB is a heavy duty chlorinated rubber based floor coating which is resistant to yellowing from ultra violet radiation resistant to attack from automotive fuel spillages.

Care has been taken to ensure that colours manufactured under modern processes are as close as possible to samples available. However, it should be noted that no guarantee can be given of exact colour matching from batch to batch.

### Technical Support

Parchem offers a technical support package to specifiers, end-users and contractors, as well as on-site technical assistance.

### Design Criteria

Nitoflor FC120 HB is designed for application in two coats to achieve an approximate total dry film thickness of between 60 and 160 microns depending on colour and grade used - refer to coverage details.

Substrates should be dry and not suffer, or be likely to suffer, from rising damp. Substrates should not have a relative humidity greater than 80% at the time of installation.

### Properties

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

Nitoflor FC120 HB	Nitoflor FC120 HB
Specific gravity at 25°C approx:	1.25
Solvent content w/w. approx:	60%
Drying time (minimum):	24 hours
<b>Line-marking paint adhesion to coating:</b>	
Dulux Roadmaster A1	Excellent
Dulux Roadmaster A2	Excellent

### Chemical properties

Nitoflor FC120 HB is resistant to a range of chemicals.

Substances to which Nitoflor FC120 HB is not resistant include: Concentrated Phosphoric and Nitric Acid or Ammonia, Chromic Acid, Sodium Hypochlorite, Bromine Water, Sulphur Dioxide, Acetic Acid, Oleic Acid, Animal Fats and Oils, Vegetable Oils, Synthetic Oils (Brake Fluid) or Aromatic and Chlorinated Solvents.

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.

### Maintenance

The service life of a floor can be considerably extended by good housekeeping practices. Regular cleaning of Nitoflor FC120 HB 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.

### Application Instructions

#### Surface preparation

It is essential that Nitoflor FC120 HB is applied to sound, clean, dry substrates in order to achieve maximum adhesion between the floor coating and substrate.

Because Nitoflor FC120 HB 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 water-reduced, the floor should be at least 28 days old or give a hygrometer reading not exceeding 80% RH. Dry removal of laitance by light grit-blasting or diamond grinding is preferable but, where this is not feasible, treat with 10% Hydrochloric acid wash, followed by a neutralising solution then 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 by hot compressed air treatment or with a chemical degreaser. A test area should be done to verify

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sufficient preparation.

## Coating

Thoroughly stir the product before use.

Apply not less than two (2) coats of Nitoflor FC120 HB by rollers at a coverage rate of 3 - 5 m<sup>2</sup> per litre per coat. The coverage obtained will vary depending on the nature of the surface to be coated.

Three (3) coats may be required on porous or coarse surfaces. Or alternatively apply a primer coat of Concure CR, prior to the application of Nitoflor FC120 HB. Where possible apply with minimum strokes of the roller as stringing may occur with successive strokes as solvent evaporates from the applied coating.

Wait a minimum of 24 hours between coats. Ensure the first coat is completely dry before applying the next coat.

## Cleaning

Nitoflor FC120 HB should be removed from tools and equipment with Solvent 10 immediately after use.

## Limitations

Nitoflor FC120 HB should not be applied on to surfaces known to suffer from rising damp or having a relative humidity reading greater than 80% .

The life expectancy of Nitoflor FC120 HB is reduced in areas of very heavy traffic such as around work benches, drinks machines etc. It is advisable to either:-

- specify additional coats in such areas or,
- specify a higher build epoxy system.

Nitoflor FC120 HB should not be applied at temperatures below 10°C or where ambient relative humidity exceeds 85%.

Nitoflor FC120 HB should not be applied when the ambient temperature will exceed 30°C during application or within 24 hours after application, otherwise bubbling is liable to occur.

Nitoflor FC120 HB contains a significant level of flammable solvent which is expelled to the surrounding air during the drying process. Suitable ventilation and the relevant OH&S precautions must be employed during and after application.

Nitoflor FC120 HB is resistant to occasional fuel / petrol spillage providing spillages are cleaned up and not left to 'pond' in areas.

## Important notice

A Safety Data Sheet (SDS) and Technical Data Sheet (TDS) are available from the Parchem website or upon request from the nearest Parchem sales office. Read the SDS and TDS carefully prior to use as application or performance data may change from time to time. In emergency, contact any Poisons Information Centre (phone 13 11 26 within Australia) or a doctor for advice.

## Product disclaimer

This Technical Data Sheet (TDS) summarises our best knowledge of the product, including how to use and apply the product based on the information available at the time. You should read this TDS carefully and consider the information in the context of how the product will be used, including in conjunction with any other product and the type of surfaces to, and the manner in which, the product will be applied. Our responsibility for products sold is subject to our standard terms and conditions of sale. Parchem does not accept any liability either directly or indirectly for any losses suffered in connection with the use or application of the product whether or not in accordance with any advice, specification, recommendation or information given by it.



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## Supply

<b>Nitoflor FC120 HB:</b>	20 litre drum
<b>411050</b>	Nitoflor FC120 hb black 20L
<b>411070</b>	Nitoflor FC120 hb silver grey 20L

## Coverage

<b>Nitoflor FC120 HB Typical coverage (m<sup>2</sup>/l per coat):</b>	5.0
<b>Theoretical wet film thickness (microns per coat):</b>	200
<b>Theoretical dry film thickness (microns per coat):</b>	80

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

## Specification Clause

The floor coating shall be Nitoflor FC120 HB, a chlorinated rubber based coating suitable for application by brush or lambswool roller. The coating shall be applied in two coats at a coverage rate not greater than 5 m<sup>2</sup>/litre per coat.

## Storage

### Shelf life

Nitoflor FC120 HB have a shelf life of 24 months if kept in a dry store in the original, unopened drums.

### Storage conditions

Product contains highly flammable liquids therefore must be stored in flameproof areas in accordance with local regulations.

Store well away from naked flames and sparks and all sources of heat. Store at ambient temperatures below 30°C. Keep container sealed when not in use.



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