

# Nitoflor Lithurin M

## Hardening and dustproofing compound for concrete surfaces

### Uses

As a surface hardener for new and old concrete floors to prevent dusting and to increase durability. Suitable for use on concrete and granolithic surfaces.

Typical applications include:

- Warehouses.
- As a case hardener for pre-cast products.

### Advantages

- Highly durable, improves abrasion resistance and reduces chemical attack from oils and greases.
- Easy to apply, no special equipment or skills required.
- Eliminates dust formation from within the treated surface.
- Economical and low cost method of floor protection.

### Description

Nitoflor Lithurin M, a clear liquid based on sodium silicate, is mixed with water and applied to concrete surfaces. The solution penetrates the concrete and reacts with the cementitious components leaving a permanent, hard wearing and dust free surface.

### Properties

<b>Penetration :</b>	Nitoflor Lithurin M is penetrative resulting in a more durable finish better than that of other surface treatments which merely form a superficial skin.
<b>Hardness :</b>	The surface hardness is achieved through a chemical reaction within the cementitious material.
<b>Anti-dust :</b>	The chemical elimination of free lime and other soluble particles creates a tightly bound surface resistant to dusting.

**Chemical resistance :** Nitoflor Lithurin M application reduces the absorbency of the surface and improves resistance to solvents, greases and commonly used chemicals.

Consult the Fosroc technical service department for details on resistance to specific chemicals.

### Instructions for use

#### Preparation

Surfaces to be treated with Nitoflor Lithurin M must be structurally sound and free from loose materials. Cracks or holes can be repaired using a recommended Fosroc repair material which should be allowed to cure prior to proceeding. Oil and grease contaminated surfaces should be treated with a suitable chemical de-greaser followed by washing with clean water and allowed to dry.

Any laitance or existing coating must be removed prior to application as these will prevent the Nitoflor Lithurin M from penetrating. New concrete floors must be allowed to cure for 14 days prior to treatment.

Coloured floors should be allowed to cure for 28 days prior to treatment and a small area tested with Nitoflor Lithurin M to assess the effect on the colour. Nitoflor Lithurin M must only be applied to dry surfaces to maximise penetration.

#### Application

Ensure that the surface to be treated is dry and apply the mixed Nitoflor Lithurin M at a rate of approximately 1 litre to every 10m<sup>2</sup> using a soft broom or brush. Allow the solution to be absorbed into the floor for a period of up to 2 hours, any solution not absorbed after this period should be removed. Failure to do so will result in the formation of a weak, glossy surface film following the drying. Normally a two or three coat application is recommended for complete treatment, however, very dense, well trowelled

surfaces such as granolithic toppings, power floated or vacuum dewatered concrete will generally require only a single coat. If a second application is necessary, reapply the solution after 24 hours ensuring that the floor is dry. All surplus solution must be removed as stated previously. The same procedure will apply for a third application if required.

## Technical support

Fosroc offers a comprehensive range of high performance, high quality flooring, joining and repair products for both new and existing floor surfaces. In addition Fosroc also offers technical support service to specifiers, end users and contractors. It is also able to offer on-site technical assistance.

## Estimating

## Supply

Nitoflor Lithurin M is available in liquid form.

Nitoflor Lithurin M	:	20 litre pails
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## Coverage

The following coverage figures are based upon coverage rates on a smooth surface. Typically an additional 10% should be allowed for surface irregularities and wastage. This will vary with site conditions.

## Nitoflor Lithurin M :

### Liquid form

5.0 m<sup>2</sup>/ litre of liquid for 3 coats

7.5 m<sup>2</sup>/ litre of liquid for 2 coats

10.0 m<sup>2</sup> / litre of liquid for 1 coat

### Storage

### Shelf Life

Nitoflor Lithurin (M) has a shelf life of 12 months when stored in dry warehouse conditions between 10°C and 30°C.

### Precautions

#### Health and safety

Nitoflor Lithurin M can cause skin corrosion and eye damage. Protective clothing and eye goggles should be worn. Wash accidental skin splashes as they occur. Wash hands thoroughly with soap and water after work. Eye contamination should be washed immediately with clean water and sought medical treatment. If swallowed, do not induce vomiting, seek immediate medical treatment.

#### Fire

Nitoflor Lithurin M is non-flammable.

#### Disposal

Spillages should be absorbed onto earth, sand or other inert material and transferred to suitable vessel. Disposal of such spillages or empty packaging should be in accordance with Local Waste Disposal Authority regulations



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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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