



Nitoflor Lithurin 2*

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 2, 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

Penetration	Nitoflor Lithurin 2 is a penetrative resulting in a more durable finish better than that of other surface treatments which merely form a superficial skin.
Hardness	The surface hardness is achieved through a chemical reaction within the cementitious material. This gives in-depth protection against heavy traffic and other forms of abrasion.
Anti-dust	The chemical elimination of free lime and other soluble particles create a tightly bound surface resistant to dusting.
Chemical resistance	Nitoflor Lithurin 2 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 2 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 2 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 2 to assess the effect on the colour.

Nitoflor Lithurin 2 must only be applied to dry surfaces to maximize penetration.

Mixing

Dilute in suitable metal containers 1 part of the Nitoflor Lithurin 2 with 3 parts of water and stir until a smooth homogeneous consistency is achieved.

Application

Ensure that the surface to be treated is dry and apply the mixed Nitoflor Lithurin 2 at a rate of approximately 1 litre to every 10 m² 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.

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Technical support

Fosroc offers a comprehensive technical support service to specifiers, end users and contractors. It is also able to offer on-site technical assistance, an AutoCAD facility and dedicated specification assistance in locations all over the world.

Estimating

Supply

Nitoflor Lithurin 2 : 20 & 210 litre drums

Coverage

Typical figures for a smooth trowelled finish are:

Nitoflor Lithurin 2	: 5.0 m ² /litre of liquid for 3 coats
	: 7.5 m ² /litre of liquid for 2 coats
	: 10.0 m ² /litre of liquid for 1 coat

Note: The coverage figures shown are typical values, however, the degree of porosity will affect the actual coverage achieved on site.

Storage

When stored in cool dry conditions in original unopened drums, Nitoflor Lithurin 2 will have a shelf life of 12 months.

Precautions

Health and safety

Nitoflor Lithurin 2 is alkaline and should not come into contact with skin or eyes or be swallowed. Wear suitable protective clothing, gloves, boots and eye/face protection. After contact with skin, wash immediately with plenty of soap and water.

In case of contact with eyes, rinse immediately with plenty of clean water and seek medical attention. If swallowed, do not induce vomiting, seek medical attention immediately.

Fire

Nitoflor Lithurin 2 is non-flammable.

The Right Chemistry for Construction

Fosroc is one of the world's major manufacturers of advanced technology chemical based products for the construction and refurbishment industries. It operates internationally through a network of operating companies, licensees, distributors and agents.

Having over 70 years experience and using global resources for research and technical development, Fosroc has built a substantial worldwide reputation in manufacturing the most comprehensive range of high performance construction chemicals:

- Concrete admixtures
- Surface treatments
- Grouts and anchors
- Concrete repair
- Industrial flooring
- Protective coatings
- Joint sealants
- Waterproofing
- Adhesives
- F.R.P Structural Strengthening
- Specific building products

* Denotes the trademark of Fosroc International Ltd.



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 Service.

Fars Iran Limited

No. 9, 25 th St., Khaled Eslamboli (Vozara) Ave., Tehran 15139 - Iran

telephone:
+98 (21) 88719021

fax:
+98 (21) 88721664

email:
iran@fosroc.com

www.fosroc.com

