



Nitoflor® SLPU

Chemical and abrasion resistant, 2mm self smoothing polyurethane floor screed.

Uses

Nitoflor SLPU provides a hard floor topping with exceptional resistance to mechanical wear and chemical spillages. Provides a non-slip surface for pedestrian and wheeled traffic.

Ideally suited for engineering plants, chemical handling and processing areas, dairies, breweries, refineries, paint workshops, plating industries and food processing plants.

Advantages

- **Durability:** Exceptional resistance to abrasion and to a wide range of chemicals
- **Non-slip:** Antiskid surface to both vehicular and pedestrian traffic.
- **Seamless:** Practically no joints
- **Self smoothing :** Designed for easy laying to a fair finish
- **Attractive:** Available in a range of colours. Provides good working environment.
- **Performance :** Suitable for a variety of light to medium duty applications.

Description

Nitoflor SLPU is a three part solvent-free combination of polyol resin, isocyanate hardeners filled with specially graded, chemically inert aggregates, with a high mechanical strength.

It is laid by a serrated trowel as a durable chemical resistant topping approximately 1.5 - 2mm thick depending on the requirement. The system includes a two pack polyurethane primer and Nitoflor SLPU both of which are supplied separately in pre-weighed units ready for on site mixing and application. The cured floor has a smooth surface of uniform colour.

Technical support

Fosroc offers a technical support service to specifiers, end users and contractors, as well as on-site technical assistance in locations all over the country.

Properties

Curing characteristics at 30°C

Nitoflor SLPU

Pot life 30 min.

Drying time 16 hrs.

Full cure 7 days

Polyurethane Primer

Pot life 60 min.

Minimum overlay time 16 hrs.

Mechanical characteristics

Property	Test method	Results
Compressive strength	BS 6319 Pt.2	95 N/mm ²
Flexural strength	BS 6319 Pt.3	13 N/mm ²
Tensile strength	BS 6319 Pt.7	11 N/mm ²

Application instructions

Surface preparation, priming, mixing and application.

Concrete surfaces should be free from oils, grease, old coatings, laitence etc. Surface preparation by sand blasting followed by thorough cleaning gives very good results.

Apply the PU primer on to the prepared surface using a nylon brush in a thin continuous layer and allow it to dry for atleast 16 hours before applying Nitoflor SLPU.

Pour the base and hardener components of Nitoflor SLPU into a suitable container and mix using a slow speed drill fitted with a paddle for 1 or 2 minutes and then slowly add the filler while mixing. Pour the uniformly mixed material on to the dry primed surface and spread the material using a serrated steel trowel. After levelling the material, roll the surface with a spike roller to smoothen and remove the entrapped air.

Nitoflor® SLPU

Limitations

Below 15°C, the mixed material will be difficult to apply.

Product is sensitive to moisture. Absorption of moisture can cause blisters and an uneven surface.

Estimating

Packing and coverage

	Pack size.	Approx. Coverage rate
Polyurethane Primer	1 Kg	6-8 m ²
	3 Kg	18-24 m ²
Nitoflor SLPU (at 2mm thickness)	17 Kg.	5m ²

The coverage rates are given for guidance only, as actual quantities used will vary depending on the nature of the substrate and conditions on site.

Storage

The PU Primer and Nitoflor SLPU have a shelf life of 6 months if stored in unopened containers under normal warehouse conditions.

Precautions

Health and Safety instructions

Some people are sensitive to synthetic resins and solvents. So, gloves, barrier creams, protective clothing and eye goggles should be worn when handling these products. Do not use solvents. Should eye contamination occur, wash with plenty of clean water and seek immediate medical attention. Good ventilation must be ensured. Smoking is prohibited during use.

Fire

Nitoflor SLPU, Nitoprime 34 and Nitoflor Sol (for cleaning tools and equipment) are flammable. Ensure adequate ventilation. Do not smoke or use near a naked flame.

Additional Information

The Fosroc range of associated products includes high strength cementitious grouts, epoxy grouts, polyester resin based mortar for rapid presetting of steel shims to level or for direct bedding of small base plates; Resin Anchoring systems for same day anchoring of bolts in drilled holes in concrete or rock. Also available are a range of products for use in construction; viz admixtures, curing compounds, release agents, flooring systems and repair mortars.

Separate datasheets are available on these products.

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Important note :

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telephone

++91 80-22240018/120

fax

++91 80-22233474

e-mail

india@fosroc.com

Regional Offices



Fosroc Chemicals (India) Pvt. Ltd.

Head Office

111/3, Hafeeza Chamber II Floor,
K H Road, PBNo. 2744, Bangalore 560027

www.fosroc.com

Bangalore

Shankar House, IV Floor
1 & 18, RMV Extension
Bangalore 560 080
Ph:080-2361 3161/2361 2004
Fax : 080-2361 7454
email: Bangalore@fosroc.com

Mumbai

208/209, Persepolis
Sector 17, Vashi
Navi Mumbai 400 703
Ph:022-2789 6412/14
Fax: 022 - 2789 6413
email:Mumbai@fosroc.com

Delhi

First floor, 1/2 East Patel Nagar
Opp: Vivek Cinema, Main Patel Rd
New Delhi 110 008
Ph:011-25884903/4
Fax: 011- 25884422
email:Delhi@fosroc.com

Kolkata

P-569, Lake Terrace Extn.
First Floor
Kolkata 700 029
Ph: 033 24650917 / 55343188
Fax: 033-24650891
email:Kolkata@fosroc.com

- Ahmedabad : (079) 26762799 ● Ankleshwar : (02646) 220704/224687 ● Bhubaneswar : (0674) 2546415 ● Chennai (044) 24899949/24853383
- Chandigarh : (0172) 2639360 ● Cochin : (0484) 2356668 ● Coimbatore : (0422) 2472966 ● Goa : (0832) 2542465 ● Guwahati (0361) 2548793
- Hyderabad : (040) 27662324/27662425 ● Hubli (0836) 09343402597 ● Indore : (0731) 504339/5061477 ● Jaipur : (0141) 2235349
- Jamshedpur : (0657) 2223848 ● Lucknow : (0522) 2239044 ● Nagercoil 09842134873 ● Visakhapatnam : (0891) 2564850 / 2707607