



Nitoflor® PU2000

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

Uses

Nitoflor PU2000 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 PU2000 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 screed approximately 2 to 3 mm thick depending on the requirement. The system includes Nitoprime 34, a two pack polyurethane primer and Nitoflor PU2000 topping 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 PU2000

Pot life	30 min.
Drying time	16 hrs.
Full cure	7 days

Nitoprime 34

Pot life	60 min.
Minimum overlay time	16 hrs.

Mechanical characteristics

Property	Test method	Test Result
Compressive strength	BS 6319 Pt.2	45 N/mm²
Flexural strength	BS 6319 Pt.3	18 N/mm²
Tensile strength	BS 6319 Pt.7	10 N/mm²
Bond strength to concrete	Elcometer Pull off test	3.0 N/mm²

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 Nitoprime 34, a two component PU primer 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 PU2000.

Nitoflor® PU2000

Pour the base and hardener components of Nitoflor PU2000 materials 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. For best results, a pan type screed mixer can be used. Pour the uniformly mixed material on to the dry primed surface and spread the material using a steel trowel. After levelling the material, roll the surface with a spike roller to smoothen and remove the entrapped air.

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
Nitoprime 34	1 Kg	6-8m ²
	3 Kg	18-24m ²
Nitoflor PU2000 (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

Nitoprime 34 and Nitoflor PU5000 have a shelf life of 6 months if stored in unopened containers under normal warehouse conditions.

Precautions

Health and Safety

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 PU2000, Nitoprime 34 and Nitoflor Sol (for cleaning tools and equipment) are flammable. Ensure adequate ventilation. Do not smoke or use near a naked flame.

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telephone	fax	e-mail
+91 80-22240018/120	+91 80-22233474	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