

Fosroc Nitoflor SL 6000 UB

**Heavy duty polyurethane based flow applied,
2-6mm thick floor topping**

Uses

Nitoflor SL 6000 UB is designed for application as a self levelling floor for concrete and other substrates. This system offers high resistance against impact, thermal shock, abrasion and chemicals.

Resistance to several organic chemicals used in the food industry makes the system suitable for use in various food processing industries. Nitoflor SL 6000 UB is ideal for use in:

- Meat, poultry and fish processing plants
- Bakeries & confectionery industries
- Airplane Hangars
- Pharmaceutical industries
- Textile manufacturing areas

Advantages

- Excellent mechanical properties
- High impact and abrasion resistance
- Resistant to thermal shock
- Resistant to intermittent live steam or hot water cleaning
- Good resistance to a wide range of chemicals

Description

Nitoflor SL 6000 UB is a polyurethane based self levelling system designed for application depth of 2-6mm. The system is formulated specifically to withstand thermal shocks, freeze/ thaw cycles and chemical attack. The product is supplied as a four-component system (including colour pack), pre-weighed for on-site mixing. Standard colours include brick red, grey and mid green. For 2-3mm application, use fine filler. For 4-6mm application, use course filler.

Properties

The values given below are typical figures achieved in laboratory tests.

Compressive strength (BS 6319) part 2, 1983	Tolerance (±10%) : 55 MPa
Flexural strength (BS 6319) part 3, 1990	30 N/mm ²
Tensile strength (BS 6319) part 7, 1985	16 N/mm ²
Impact resistance (BS 8204)	: No visible damage or deterioration
Resistance to fungal growth (ASTM G21)	Passes
Resistance to elevated temperatures (95°C)	No flow, softening, chalking or cracking
	20°C 35°C
Pot life	120 minutes 70minutes
Initial hardness	20 hours 2 hours
Full cure	7 days 4 days

Chemical resistance

Nitoflor SL 6000 UB will resist spillage of the following chemical solutions at 25°C:

Inorganic

Sodium Hydroxide 40%, Sodium Chloride (sat.) Chlorine Water

Organics

Glucose syrup (sat.), Sugar solution (sat.), Citric acid (10%), Tartaric acid (10%), Nicotinic acid (10%)

Alcoholic Beverages

Wine, Brandy, Beer

Carbonated Beverages

Pepsi / Coca Cola, Mirinda / Fanta, 7 UP / Team

Electrochemical Solutions

Copper Sulphate 1M
Zinc Sulphate 1M

Fruit juices

Grape juice, Orange juice, Fruit cocktail, Apple juice
Mango juice, Pineapple juice, Lemon juice

Fosroc Nitoflor SL 6000 UB

Fats

Vegetable Oil, Cheese, Butter

Sea Food

Fish (varieties), Prawns (varieties), Fish liquid,
Fish blood Processed fish oil

Poultry

Chicken, Egg (yolk + white)

Meat

Beef, Sheep blood

Fuels

Petrol, Diesel, Engine oil, Hydraulic oil, Brake fluid
Coolant

Cleaning Aids

Dishwashing liquid, Clorox, Jiff, Commercial
detergents

Note : The local Fosroc office should be consulted for additional chemicals, different concentrations or operating temperatures greater than 25°C.

All the above properties have been determined by laboratory controlled tests and success in use will be determined by the implementation of good housekeeping practices.

Instructions for use

Surface Preparation

The long term durability of any resin floor system is determined by the adhesive bond achieved between the flooring material and the substrate. It is most important therefore that substrates are correctly prepared prior to application.

Any damaged areas or surface irregularities should be repaired using one of the Nitoflor EU*† range of products.

Nitoflor SL 6000 UB should be applied by specialist contractors who must follow the procedures laid down in the Product Application Guide. Fosroc works with a network of such applicators who have been trained in the correct installation procedures. The following steps are involved in the application which would normally take place over a 2 to 3 day period.

Thoroughly prepare the floor surface. Correct surface preparation helps to achieve the necessary adhesive bond between the substrate and the new floor.

All existing expansion or movement joints should be followed through the new floor surface. Joints should be cleaned and prepared.

- Apply Nitocote Primer Sealer and allow to cure for 12 hours at 20°C or 8 hours at 35°C.
- Apply the Nitoflor SL 6000 UB topping. The material is poured on to the primed surface and spread with a notched steel trowel to achieve a 2-3mm topping (if using fine filler) or a 4-6mm topping (if using coarse filler).
- Using a spiked roller, remove air entrainment and allow to cure.
- Install the most appropriate Fosroc joint sealant. This will depend on the anticipated movement accommodation factor and the end use of the new floor. For further advice, consult the local Fosroc office.

Steel surfaces

Steel surfaces should be degreased and grit blasted to SA2½ immediately prior to application. Clean steel surfaces should be primed with Nitocote Primer Sealer prior to the application of Nitoflor SL 6000 UB.

Cleaning

Nitocote Primer Sealer and Nitoflor SL 6000 UB should be removed from tools and equipment with Fosroc Solvent 102* immediately after use. Hardened material can only be removed mechanically.

Maintenance

The service life of a floor can be considerably extended by good housekeeping. Regular cleaning may be carried out using a rotary scrubbing machine with a water miscible cleaning agent at temperatures up to 100°C.



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Limitations

- Nitoflor SL 6000 UB should not be applied on to surfaces which are known to, or likely to suffer from, rising dampness, potential osmosis problems or have a relative humidity greater than 75% as measured in accordance with BS 8203 Appendix A or by a Hammond concrete/mortar moisture tester type COCO.
- Fosroc does not recommend acid etching as a method of floor preparation. If used, the method should be approved by the project consultant.
- Nitoflor SL 6000 UB should not be applied to asphalt, weak or friable concrete, unmodified sand/cement screeds, PVC tiles or sheet.
- Nitoflor SL 6000 UB should not be installed at temperatures below 10°C or above 35°C.
- Not suitable for service temperatures below -5°C.
- Nitoflor SL 6000 UB results in colour change when in contact with oxidising acids.

Technical support

Fosroc offers a comprehensive range of high performance, high quality flooring, jointing and repair products for both new and existing floor surfaces. In addition, the company offers a technical support package to specifiers, end-users and contractors, as well as on-site technical assistance in locations all over the world.

Estimating

Supply

Nitoflor SL 6000 UB	:	15litre packs(course filler)
	:	10.3litre packs(fine filler)
Nitocote Primer Sealer	:	1 and 4 litre packs
Fosroc Solvent 102	:	5 litre can

Coverage

Nitoflor SL 6000 UB	:	2.5 m ² @ 6 mm thickness using 15ltr pack with course filler
	:	5.1 m ² @ 2 mm thickness using 10.3ltr pack with fine filler
Nitocote Primer Sealer	:	4 - 5 m ² /litre

Note : The coverage figures given are theoretical - due to wastage factors and the variety and nature of possible substrates, practical coverage figures will be reduced. Typically an additional 10% should be allowed for surface irregularities and wastage although this will vary with site conditions.

Storage

Shelf life

All products have a shelf life of 12 months if kept in a dry store in the original, unopened packs.

Storage conditions

Store in dry conditions between 5°C and 30°C, away from sources of heat and naked flames, in the original, unopened packs. If stored at high temperatures the shelf life will be reduced.

Disposal

Spillages of component products should be absorbed onto earth, sand or other inert material and transferred to a suitable vessel. Disposal of such spillages or empty packaging should be in accordance with local waste disposal regulations.

For further information, refer to the Product Material Safety Data Sheet.

Precautions

Health and safety

Nitoflor SL 6000 UB, Nitocote Primer Sealer and Fosroc Solvent 102 should not come into contact with the skin and eyes, or be swallowed. Ensure adequate ventilation and avoid inhalation of vapours. Some people are sensitive to resins, hardeners and solvents.

Wear suitable protective clothing, gloves and eye protection. If working in confined areas, suitable respiratory protective equipment must be used.

The use of barrier creams provide additional skin protection. In case of contact with skin, rinse with plenty of clean water, then cleanse with soap and water. Do not use solvent.

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

Fire

Nitoflor SL 6000 UB and Nitocote Primer Sealer are non-flammable.

Fosroc Solvent 102 is flammable. Keep away from sources of ignition. No smoking. In the event of fire extinguish with CO₂ or foam. Do not use a water jet.

Flash Points

Fosroc Solvent 102 :	33°C
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Additional Information

Fosroc manufactures a wide range of complementary products which include :

- waterproofing membranes & waterstops
- joint sealants & filler boards
- cementitious & epoxy grouts
- specialised flooring materials

Fosroc additionally offers a comprehensive package of products specifically designed for the repair and refurbishment of damaged concrete. Fosroc's 'Systematic Approach' to concrete repair features the following :

- hand-placed repair mortars
- spray grade repair mortars
- fluid micro-concretes
- chemically resistant epoxy mortars
- anti-carbonation/anti-chloride protective coatings
- chemical and abrasion resistant coatings

For further information on any of the above, please consult your local Fosroc office - as below.

* Denotes the trademark of Fosroc International Limited

† See separate data sheet



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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 Service. **All Fosroc datasheets are updated on a regular basis. It is the user's responsibility to obtain the recent version.**

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