

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

Uses

Fosroc Nitoflor SL6000 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. Fosroc Nitoflor SL6000 UB is ideal for use in:

- Freezer rooms
- Refrigerated stores
- Meat, poultry and fish processing plants
- Bakeries & confectionery industries
- 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
- Unaffected by freeze/thaw cycles

Description

Fosroc Nitoflor SL6000 UB is a polyurethane based self levelling system designed for application depth of 6mm or greater. 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.

Properties

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

Compressive strength (BS 6319) part 2, 1983	: 75 N/mm ²
Flexural strength (BS 6319) part 3, 1990	: 28 N/mm ²
Tensile strength (BS 6319) part 7, 1985	: 15 N/mm ²
Mixed density	: 1.841 g/cc

Impact resistance (BS 8204)	: No visible damage or deterioration
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Resistance to fungal growth (ASTM G21)	: Passes
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	20°C	35°C
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Pot life	: 45 min	35 min
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Initial hardness	: 20 hours	12 hours
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Full cure	: 7 days	4 days
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Service temp. range	: -5°C to 85°C
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Chemical resistance

Fosroc Nitoflor SL6000 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

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 house-keeping 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.

Fosroc Nitoflor SL6000 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 Fosroc Nitoflor SL6000 UB topping. The material is poured on to the primed surface and spread with a notched steel trowel to achieve a 6 mm seamless topping.

- 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 Nitoprime Primer Sealer prior to the application of Fosroc Nitoflor SL6000 UB.

Cleaning

Nitocote Primer Sealer and Fosroc Nitoflor SL6000 UB should be removed from tools and equipment with Nitoflor Sol 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.

Limitations

- Fosroc Nitoflor SL6000 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 Thermohyrometer.
- Fosroc does not recommend acid etching as a method of floor preparation. If used, the method should be approved by the project consultant.
- Fosroc Nitoflor SL6000 UB should not be applied to asphalt, weak or friable concrete, unmodified sand/cement screeds, PVC tiles or sheet.
- Fosroc Nitoflor SL6000 UB should not be installed at temperatures below 10°C or above 35°C. Not suitable for use at temperatures below -5°C.
- Fosroc Nitoflor SL6000 UB is subject to 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

Fosroc Nitoflor SL6000 UB	:	15 litre packs
Nitocote Primer Sealer	:	1 and 4 litre packs
Nitoflor Sol	:	5 litre can
Coverage		
Fosroc Nitoflor SL6000 UB	:	2.5 m ² /pack @ 6 mm thickness
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

Fosroc Nitoflor SL6000 UB, Nitocote Primer Sealer and Nitoflor Sol 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

Fosroc Nitoflor SL6000 UB and Nitocote Primer Sealer are non-flammable.

Nitoflor Sol 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

Nitoflor Sol	:	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 Nitoflor SL6000 UB



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.



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