

# Nitoflor UR

(Formerly known as Trafficguard UR)



constructive solutions

## Skid resistant, flexible, waterproof protection polyurethane resin topping system for car park decks

### Uses

Nitoflor UR is a modified polyurethane-based traffic deck system designed to provide an added level of protection to, new and existing, heavily trafficked areas such as:

- Car park decks
- Car park ramps
- Turning areas
- Entrance/exit areas
- Thoroughfares

### Advantages

- Flexible and tear resistant
- Multi purpose
- Waterproof
- Seamless
- Rapid application, reliable and safe

### Description

Nitoflor UR is a multi-layer deck protection system comprising a primer, flexible & waterproof base coat and UV resistant wearing course. All components are applied in the liquid phase and react chemically to form a tough, flexible, waterproof, protective surface.

Nitoflor UR is available in a range of 3 standard colours: Silver Grey, Sage Green or Brick Red.

### Properties

Elongation ( ASTM D 412 )	:	>100%
Tensile Strength ( ASTM D 412 )	:	6.0 N/mm <sup>2</sup>
Tear Resistance ( ASTM D 624 )	:	26.0 N/mm <sup>2</sup>
Shore A Hardness ( ASTM D 2240 )	:	>80

### Instructions for use

#### Surface Preparation

New concrete surfaces should have reached 80% of their intended physical properties - generally only achieved after a minimum curing period of 28 days. Existing concrete surfaces must be prepared to provide a clean, sound substrate.

Surfaces should be clean and dry with open capillary, free from laitance, oil & grease, curing compounds or other surface contaminants which may prevent full and proper adhesion of the primer. All blowholes, and other surface undulations greater than 1 mm in depth, should be repaired using Nitomortar FC(B).

Temperature of the substrate during application must be between 5°C and 40°C.

#### Priming

Apply Nitoflor UR Primer to the prepared surface at a wet film thickness of 200 microns.

Whilst Nitoflor UR Primer is still wet, seed with Fosroc Anti Slip Grain No. 3 at a rate of 0.4 kg / m<sup>2</sup> and allow to cure for 24 hours.

#### Application

##### Base Coat

Apply Nitoflor UR Base Coat to the primed surface at a wet film thickness of 750 microns. For best results the Nitoflor UR Base Coat should be applied with a notched trowel or squeegee.

Whilst the base coat is still wet apply Fosroc Anti Slip Grain No. 1200 at a rate of 0.4 kg / m<sup>2</sup>. Allow to cure for 12 hours prior to applying the wear course.

##### Wear Course

Apply Nitoflor UR Wear Course to the base coat at a wet film thickness of 140 microns. Allow to cure for 24 hours prior to trafficking.

##### Cleaning

Tools and equipment should be cleaned with immediately

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after use with Fosroc Solvent 102.

## Estimating

### Supply

Nitoflor UR Primer	:	4 litre packs
Nitoflor UR Basr Coat	:	8 litre packs
Nitoflor UR Wear Course	:	20 litre packs
Antislip Grains No. 2,3	:	20 kg bags

### Coverage

Nitoflor UR Primer	:	5.0 m <sup>2</sup> /litre
Nitoflor UR Basr Coat	:	1.3 m <sup>2</sup> /litre
Nitoflor UR Wear Course	:	7.0 m <sup>2</sup> /litre
Antislip Grains No. 2,3	:	0.4 kg / m <sup>2</sup>

Note : the above coverage rates are given for guidance only as actual quantities used will vary depending upon the nature of substrate and conditions on site.

## Storage

### Shelf life

When stored in warehouse conditions at less than 25°C, Nitoflor UR will have a shelf life of 12 months.

## Technical Support

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

## Limitations

- Do not proceed with application if precipitation is imminent, temperatures are expected to drop below 7°C within 24 hours of application.
- Nitoflor UR should not be applied onto substrate known to suffer from rising dampness or have a R.H. greater than 75% as measured in accordance with BS 8203 Appendix A or have a moisture content greater

than 5% as measured by a Hammond concrete/mortar moisture tester type COCO.

- Do not proceed with application if an osmotic condition is known or is suspected to exist.

## Precautions

### Health and safety

Nitoflor UR Primer, loose cans and wear course and Fosroc Solvent 102 should not come in contact with skin or eyes, nor should they be swallowed. Avoid inhalation of vapours and ensure adequate ventilation.

Some people are sensitive to resins, hardeners and solvents. Wear suitable protective clothing, gloves and eye/face protection. Barrier creams such as Kerodex Antisolvent or Rozalex Antipaint provide additional skin protection.

Should accidental skin contact occur, remove immediately with a resin removing cream such as Kerocleanse Standard Grade Skin Cleanser or Rozaklens Industrial Skin Cleanser, followed by washing with soap and water -**do not** use solvent.

The use of goggles is recommended, in case of accidental eye contamination, rinse immediately with plenty of water and seek medical advice.

If swallowed seek medical attention immediately -**do not** induce vomiting.

### Fire

Fosroc Solvent 102 and Nitoflor UR Primer are flammable. Do not use near a naked flame.

### Flash points

Fosroc Solvent 102	33°C
Nitoflor UR Primer	59°C



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### Important note

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