

Trafficguard UR150 EF

(Lower VOC version of Trafficguard UR150)

Hard wearing, skid resistant, flexible flooring system

Uses

Trafficguard UR150 EF is suitable for use in a variety of commercial, industrial, and institutional settings. It is ideal for use in:

- Exposed and intermediate car park decks
- Parking deck ramps, driveways and turning bays
- Loading dock surfaces
- Other areas subject to heavy traffic and exposure to harsh environmental conditions such as quaysides, workshop, medium traffic warehouse, car production facilities, showrooms etc.

The system is compatible with both new and existing concrete substrates, making it an excellent choice for both new and retrofit / refurbishment projects.

Advantages

- **Lower VOC formulation:** Trafficguard UR150 EF is engineered to help reduce the carbon footprint of a project.
- **Excellent durability:** Provides excellent resistance to abrasion, impact and general wear and tear.
- **High-performance:** Will provide long term protection from direct UV light exposure and spillages of oil, brake fluid and coolants.
- **Versatile:** Can be applied in a range of colors and finishes to suit the aesthetic requirements of the project.
- **Easy to maintain:** The finished surface remains easy to clean and maintenance can easily and quickly be undertaken, if and when required.

Description

Trafficguard UR150 EF is a lower VOC car park deck floor system comprising a primer, flexible polyurethane topcoat supplied with UV resistant wear course for outdoor application. A slip resistant texture can be obtained by incorporating an anti-slip aggregate between coats.

All components are applied in the liquid phase and subsequently, chemically cures to create a very tough and highly durable wearing surface for pedestrian and vehicular traffic.

Physical Properties*

VOC Content	: < 100 g/l
Pot Life	: 30 - 45 minutes
Drying Time	: 12-16 hours
Thickness	: (1-1.5 mm including anti-slip grains)
Hardness (ASTM D2240)	: > 96 Shore A
Tensile Strength (ASTM D412)	: > 12 MPa
Elongation (ASTM D412)	: > 120%
Tear Resistance (ASTM D1004:21)	: > 25 N/mm
Abrasion Resistance (ASTMD D4060 : 1Kg, CS17, 1000 cycles)	: < 0.03 g
Adhesion (BS EN ISO4624)	: 3 MPa, Concrete failure
Mixed Density	: 1.13 kg/l (Trafficguard TC EF) : 1.23 kg/l (Trafficguard WC PA)

*Typical properties at 25°C

Instructions for use "Refer to the Method Statement"

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 by mechanical means, to provide a clean, sound, dust and contaminant-free substrate. All dust and debris shall be removed by vacuum cleaning techniques.

Surfaces should be clean and dry, free from laitance, oil and grease, curing compounds or other surface contaminants which may prevent full and proper adhesion of the primer. All blowholes, and other surface undulations should be repaired using an appropriate Fosroc product for concrete repair such as Nitomortar TC2000.

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Application

Primer

Apply Nitoprimer 31 to the prepared surface at an application rate in the range of 0.3 lt/m². Quantity will depend on surface texture and porosity.

Whilst Nitoprimer 31 is still wet, blind with Anti Slip Grain No.2 at an estimated rate of between 0.4-0.8 kg/m², leave to dry for 16 hours @ 35°C. Prior to the removal of excess antislip grain ensure that the grains are firmly embedded in the primer.

Topcoat

Apply Trafficguard TC EF to the primed surface at an application rate of 0.4 - 0.5 lt/m² per coat. For best results the Trafficguard TC EF should be applied with a short-medium pile lambswool roller.

Trafficguard TC EF is available in a range of standard colours. Contact Fosroc for details.

Wear Course (for UV exposed application)

Apply Trafficguard WC PA to the Trafficguard TC EF at an application rate of 0.1- 0.15 lt/m² (100 - 150 microns WFT) per coat.

Trafficguard WC PA can be matched to certain RAL shades. Contact Fosroc for details.

Traffic

Prior to trafficking allow the following cure periods:

Foot traffic	: 24 hrs @ 25°C or 18 hrs @ 35°C
Vehicle traffic	: 3 days @ 25°C or 48 hrs @ 35°C

Cleaning

Tools and equipment should be cleaned immediately after use with Fosroc Solvent 102

Estimating

Supply

Nitoprime 31	: 20 kg packs
Antislip Grains No. 2	: 40 kg bags
Trafficguard TC EF	: 16.5 litre drums
Trafficguard WC PA	: 18 litre drums
Fosroc Solvent 102	: 20 litre drums

Coverage

Nitoprime 31	: 0.3 lt/m ²
Antislip Grains No. 2	: 0.4 - 0.8 kg/m ²
Trafficguard TC EF	: 0.4 - 0.5 lt/m ² /coat
Trafficguard WC PA	: 0.1 - 0.15 lt/m ² /coat

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. It is strongly advised that trials are conducted to establish coverage rates.

Note: In accordance with Commercial or Health & Safety requirements packaging detail may alter. Please contact your local Fosroc office for detail.

Technical Support

Fosroc offers a comprehensive technical support service to specifiers, end users and contractors. Fosroc is also able to offer on-site technical assistance, and dedicated specification assistance in locations all over the world.

Storage

Shelf life

When stored in warehouse conditions at lower than 25°C, Trafficguard UR150 EF will have a shelf life of 12 months.

Limitations

- Trafficguard UR150 EF should not be applied on to surfaces which are known to or likely to suffer from rising damp or have a relative humidity greater than 80% as measured in accordance with BS8203 Appendix A or by Hammond concrete/mortar moisture tester type COCO.
- For substrates likely to suffer from rising damp or have a relative humidity greater than 80% it is recommended to use damp proof membrane system prior the application of Trafficguard UR150 EF such as Nitoflor DPM and Nitoflor DPM CEM
- In conditions of high relative humidity i.e. 85-90%, good ventilation conditions are essential. Substrate temperature should be at least 3°C above dew point.
- Do not proceed with application if precipitation is imminent or temperatures are expected to drop below 7° C within 24 hours of application.
- Some corrosive materials like battery acid will cause discolouration. Ensure there is a cleaning schedule in place.

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High temperature working

- i. It is suggested that, for temperatures above 35°C, the following guidelines are adopted as good working practice:
- ii. Store material in a cool (preferably temperature controlled) environment, avoiding exposure to direct sunlight.
- iii. Keep equipment cool, arranging shade protection if necessary. It is especially important to keep cool those surfaces of the equipment which will come in direct contact with the material itself.
- iv. Try to eliminate application during the hottest times of the day.
- v. Make sufficient material, plant and labour available to ensure that the application is a continuous process.

Precautions

Health and safety

Nitoprime 31, Trafficguard TC EF and Trafficguard WC PA 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



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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. For further information see relevant Material Safety Data Sheet.

Fire

Trafficguard TC EF and Trafficguard WC PA are flammable. Do not use near a naked flame.

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
- 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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† See separate data sheet

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 Services, copies of which may be obtained on request. Whilst Fosroc endeavours to ensure that any advice, recommendation, specification of information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products, whether or not in accordance with any advice, specification, recommendation of information given by it.