

Two component aliphatic polyurethane coating.

Uses

Trafficguard Wearcourse is a UV resistant polyurethane coating designed to provide an added level of protection to, new and existing, traffi cked areas such as:

- Car park decks
- Aircraft hangers
- Transport depots; e.g. bus, couch, taxis etc
- Service centres, garages
- Workshops

Advantages

- Flexible and bridges dynamic cracks
- Suitable for all zones in a car park
- Seamless and watertight
- Rapid application, reliable and safe
- UV resistant

Description

Trafficguard Wearcourse is a two component, pigmented, aliphatic polyurethane coating possessing good resistance to long term exposure of UV rays and chemical attack. Cured coating is reesistant to high humidity, corrosion and abrasion. All components are applied in the liquid phase and react chemically to form a tough, fl exible, waterproof protective surface.

Trafficguard Wearcourse is available in a range of standard colours. Contact your local Fosroc office for full details.

Properties

Pot life at 27°C	: Min.2 hours
Initial cure at 30°C	: 16 hours
Final cure at 30°C	: 5 days
Flash point	: 35 °C
Crack Bridging ability (ASTMC1305)	: Pass
Wet film thickness	: 100 - 200 microns/coat
Adhesive bond strength (ASTM D 4541)	: >1.5N/mm ²
Weathering (30 days)ASTM G53: No change in original appearance	
Corrosion resistance(30 days) (ASTM B117) : No change in original appearance	
Humidity resistance(30 days) (Water fog exposer) : No change in original appearance.	

Humidity resistance(30 days) (Water fog exposer) : No change

Abrasion Resistance : <45mg (ASTM D4060, CS17, 1Kg load 1000 cycles)

Chemical Resistance

Trafficguard Wearcourse is resistant to below chemicals when it is immersed for 7 days:

- 25% Sodium Hydroxide, Petrol, Engine Oil.
- Antifreeze coolant, Kerosene.
- Jet fuel, Brake fl uid, Mineral spirit
- Diesel, Medium concentration acids
- Mineral spirit, Gasolene & Jet fuel.
- Saturated salt solution, Detergents etc.

Trafficguard Wearcourse is resistant to below chemicals with slight gloss change when it is immersed for 7 days:

- Skydrol
- 20% Nitric Acid
- 38% Hydrochloric acid
- 37% Sulphuric acid.

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 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.

Application

Primer

Apply Nitoprime 25 to the prepared surface at an application rate in the range of 0.2 to 0.3 ltr/m². Quantity will depend on surface texture and porosity.

Whilst Nitoprime 25 is still wet, blind with required size of Anti Slip Grain 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.

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Base Coat

Apply Epoxy base coat to the primed surface broadcasted with antislip grains at an application rate in the range of 0.2 to 0.5 ltr/m² per coat depending on the size of antislip grains. For best results the Epoxy base coat should be applied with a short haired lambswool roller

Wearcourse

Apply Trafficguard Wearcourse to the Epoxy base coat at an application rate of 0.1 - 0.2 ltr/m² (100-200 microns wft) per coat. Prior to trafficking allow the following cure periods

Foot traffic : 24 hrs @ 25°C or 18 hrs @ 35°C

Vehicle traffic : 5 days @ 25°C or 72 hrs @ 35°C

Traffic marking lines may be applied using Trafficguard Line Marking Paint (TLMP) after five days from time of application.

Cleaning

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

Estimating

Supply

Pack size : 20 litre pack

Coverage

0.2 ltr/m²/coat

Technical Support

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

Storage

Shelf life

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

Limitations

- Trafficguard Wearcourse 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.

- In conditions of high relative humidity i.e. 85-90%, good ventilation conditions are essential. Substrate temperature should be atleast 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.

High temperature working

It is suggested that, for temperatures above 35°C, the following guidelines are adopted as good working practice:

- (i) Store material in a cool (preferably temperature controlled) environment, avoiding exposure to direct sunlight.
- (ii) 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.
- (iii) Try to eliminate application during the hottest times of the day.
- (iv) Make sufficient material, plant and labour available to ensure that the application is a continuous process.

Precautions

Health and safety

Trafficguard Wearcourse 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 cream can provide additional skin protection.

Should accidental skin contact occur, remove immediately with a resin removing cream 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.

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Fire

Fosroc Solvent 102, Trafficguard Wearcourse are flammable.
Do not use near a naked flame

Flash points

Fosroc Solvent 102	:	33°C
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Trafficguard Wearcourse	:	35°C
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Additional Information

Berger Fosroc manufactures a wide range of complementary products which include :

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

Berger 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 Berger Fosroc office - as below.

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Important note :

Berger Fosroc products are guaranteed against defective materials and manufacture and are sold subject to its standard terms and conditions of sale, copies of which may be obtained on request. Whilst Berger Fosroc endeavours to ensure that any advice, recommendation specification or 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 or information given by it.



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