

Fosroc® Nitoproof UVR Topcoat



Colour stable, fire retardant, flexible polyurethane coating

Description

Fosroc Nitoproof UVR Topcoat is a roller applied, two component, high solids, flexible, light to medium-duty trafficable, colour stable and flame retardant polyurethane coating.

Uses

- Colour stable and fire rated topcoat component for the Fosroc Nitoproof 800 roof/balcony waterproofing system
- Colour stable and fire rated topcoat for Fosroc Polyurea WPE waterproofing system

Please refer to the Fosroc Nitoproof 800 system data sheet, or the Fosroc Polyurea WPE product data sheet and Fosroc Polyurea Method Statement for further information, including surface preparation detail.

Advantages

- Environment friendly – high solids
- Seamless and monolithic, including field joints
- Significantly enhances the durability of reinforced concrete when used in conjunction with either Nitoproof 800 or Fosroc Polyurea WPE
- Colour stable
- Strong adhesive bond
- Long open time for use with Fosroc Polyurea - can be applied up to 48 hours after polyurea application *
- Fire rated to BS476-3:EXT.F.AA when used in conjunction with the Fosroc Nitoproof 800 system
- Fire rated to BS476-3:EXT.F.AA when used in conjunction with Fosroc Polyurea WPE
- LEED SS10 v4.1 pass

* for applications >48 hours after polyurea application, reactivation is required – see Fosroc Polyurea Method Statement

Properties

Typical Physical properties at 23°C

Density at 25°C:	1.5 – 1.6 g/ml
Abrasion, ASTM D4060 (1kg, CS10 wheels):	0.4 g /1000 cycles *
Chemical Resistance:	Resistant to spillage of various chemicals including Motor oil, Kerosene, Diesel and Petrol. Consult your local Fosroc office for specific details
Service temperature	-30°C to +70°C

* as 0.2mm thickness coating on Fosroc Polyurea WPE

Colours and Opacity

Standard colours are; Mouse grey, Signal grey, Beige, May green, Signal yellow, Traffic blue.

A minimum film thickness of 0.3mm is required for use with Nitoproof 800, and a minimum film thickness of 0.2mm for use with Fosroc Polyurea WPE.

Application Instructions

Pour and drain the full contents of the hardener container into the resin container and mix thoroughly with a slow speed electric stirrer fitted with an appropriate paddle, for a minimum of 3 minutes until homogeneous. DO NOT dilute the product under any circumstances.

Spread and apply at the required coverage rate (see Coverage) using a roller to achieve a uniform finish. A broadcast of dried sand may be used to provide anti-slip feature (coloured sand may be used for aesthetic effect). Allow to dry, walkable after approximately 12 hours at 20°C.

Working Life, 20°C *	15 - 20 mins
Tack-Free Time, 20°C	8 hours
Overcoating Time, 20°C	8 - 48 hours
Trafficable, 20°C	
Light Duty Traffic	12 hours
Service Traffic	2 - 3 days
LEED compliance (SS10 v4.1 Heat island reduction SRI)	Pass (white colour)
Solar Reflectance Index (SRI) (ASTM E1980)	97

* Usable working life of material following mixing and spreading as per the application instructions.

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Recoating

For recoating applications, if the existing coating has been allowed to dry >48 hours, then a surface reactivation should be carried out using a Fosroc Nitoprime 150 wipe, and allowed to dry before applying the recoating, approximately 30 minutes at 20°C. Refer to Fosroc for advice.

Estimating

Supply:

Plastic containers:	5 kg, 10 kg packs
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Coverage:

On Fosroc Nitoproof 800:	22 m ² per 10 kg pack for 0.3 mm film
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On Fosroc Polyurea WPE:	32 m ² per 10 kg pack for 0.2 mm film *
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* A lower coverage rate may be required in some cases, depending on site conditions such as surface profile.

Limitations

Do not proceed with application if atmospheric relative humidity is >90% or if the surface temperature is <3°C above the dew point.

Application should not commence when the substrate temperature or the ambient temperature is, or is anticipated to be, <+5°C during the application or within the tack-free period.

For work in exposed areas, do not proceed with application if precipitation is imminent. Keep applied areas protected from precipitation within the tack-free period.

The manufacture of Fosroc Nitoproof UVR Topcoat is a batch process and despite close manufacturing tolerances, colour variation may occur between batches. Fosroc recommends using Nitoproof UVR Topcoat from a single batch as the final finish in one area section.

As with all exterior coatings, some fading of colour can be expected over time, depending on UV levels and temperature.

Safety handling

Avoid contact with eyes and skin. Wear suitable protective clothing, gloves and eye/face protection at all times. Ensure adequate ventilation.

Fosroc Nitoproof UVR Topcoat hardener may cause sensitisation by skin contact.

In case of eye contact, first aid must be administered immediately. The eyes should be held open while flushing with a continuous low pressure stream of water for at least 15 minutes. Seek medical advice immediately. If swallowed, seek medical attention immediately - do not induce vomiting.

The use of barrier creams provides additional skin protection. Refer to safety data sheets for detailed information.

Storage

Fosroc Nitoproof UVR Topcoat has a shelf life of 12 months if kept in a dry, air conditioned store between +5°C and +30°C in the original unopened containers.

Disposal Considerations

Cured Nitoproof UVR Topcoat can be disposed of without restriction. The uncured base and hardener components should be disposed of according to local environmental laws and ordinances.

“Drip free” containers should be disposed of according to local environmental laws and ordinances.

Refer to safety data sheets for all relevant information on Fosroc Nitoproof UVR Topcoat.

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Important note

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