



New Guard Coatings Group

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Fosroc® Nitoflor HB300 U

constructive solutions

Water-based high-build polyurethane coating

Uses

Fosroc Nitoflor HB300 U is a polyurethane coating designed as a sealer for Fosroc Nitoflor Coving U mortar, where maximum chemical resistance is required.

Advantages

- Ease of application
- Easy to clean
- Excellent chemical resistance

Description

Fosroc Nitoflor HB300 U is a three-part polyurethane coating which cures to a matt surface with a mottled finish. It is available in a range of standard Fosroc Colours. Roller applied.

Chemical Resistance

Nitoflor HB300 U is resistant to a wide range of commonly used chemicals in the food, dairy and pharmaceutical industries such as concentrated citric acid (fruits), spirit vinegar (50% acetic acid), lactic acid (food & dairy products) and common alcohols (methanol & ethanol).

Nitoflor HB300 U is also resistant to a wide range of inorganic acids, fuels, hydraulic oils, mineral oils and solvents. Good housekeeping practices should be employed. Please consult Fosroc for further advice.

Some staining or discolouration may occur with some chemicals, depending on dwell time, temperature, type of chemical and degree of housekeeping employed. This does not affect the product service integrity or durability.

Application Conditions

Application temperature range is 5-30°C. The substrate and uncured floor must be kept at least 3°C above the dew point to reduce the risk of condensation or blooming on the surface, to at least 48 hours after application of Nitoflor HB300 U.

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Fosroc Ltd Drayton Manor Business Park, Coleshill Road, Tamworth, B78 3XN, UK 09 DOP: UK9-187	
Fosroc Nitoflor HB300 U	
EN 13813 SR - B2,0 - AR0,5 - IR20 Synthetic resin screed material for use internally in buildings not subject to reaction to fire regulations.	
Reaction to fire	NPD
Release of corrosive substances	SR
Water permeability	NPD
Wear Resistance	AR0,5
Bond strength	B2,0
Impact resistance	IR10
Sound insulation	NPD
Sound absorption	NPD
Thermal resistance	NPD
Chemical resistance	NPD

Cure Schedule at 20°C

Working life of full packs *:

Nitoflor HB300 U 15 minutes

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

Finished coating:

Overcoating time 16-48 hours

Cure time to light traffic 24 hours

Full cure 7 days

Note: The above cure times are approximate and given as a guide only. These times can vary due to prevailing site conditions.

Fosroc® Nitoflor HB300 U

Application Instructions

Fosroc Nitoflor HB300 U is a three-component product. Thoroughly drain the contents of the hardener component into the coloured base component and mix for a minimum of 1 minute or until a homogeneous mix is obtained. Add the full contents of the aggregate bag slowly and mix for a further 1-2 minutes until a lump free consistency is obtained.

Apply using a medium nap roller directly from a paint tray or scuttle. Push the coating well into the surface, make sure it is fully wetted out then pull back to a tight coat with the roller. Inconsistent application thickness will result in an uneven finish and appearance. It is always preferable to apply two thin coats (using the coverage rate below) rather than one heavy coat.

Supply

Nitoflor HB300 U	3 kg packs
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Coverage

Nitoflor HB300 U	15m ² per 3 kg pack per coat (DFT per coat ~140 microns)
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Note: Coverage figures given are theoretical. Actual site practical coverage figures may vary, due to wastage factors and the type and condition of the substrate.

Colours

Fosroc Nitoflor HB300 U is available in a range of standard Fosroc colours. Nitoflor HB300 U is not colour fast and may yellow over time. The rate of change will depend on UV light and heat levels and cannot be predicted. This will be more pronounced with lighter colours and blue shades and does not compromise the product's performance or chemical resistance characteristics.

Cleaning

Regular cleaning is essential to enhance and maintain the life expectancy, slip resistance and appearance of the floor. Fosroc Nitoflor HB300 U can be easily cleaned using industry standard cleaning chemicals and techniques. Consult your cleaning chemical and equipment supplier for more information.

Health and Safety

Fosroc Nitoflor HB300 U should not come into contact with the skin and eyes, or be swallowed. Ensure adequate ventilation and avoid inhalation of vapours.

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 provides 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. Refer to Product Safety Data Sheet for further information.

Fire

Fosroc Nitoflor HB300 U is non-flammable.

Storage, Mixing & Application

Fosroc Nitoflor HB300 U has a shelf life of 12 months (6 months for the aggregate component) if stored in unopened packs between 10°C and 30°C. Storage outside this range, or repeated fluctuations in storage temperature can reduce the storage life. Protect from frost.

Limitations

Do not proceed with application if atmospheric relative humidity is, or is anticipated to be, >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.

The manufacture of Fosroc Nitoflor HB300 U is a batch process and despite close manufacturing tolerances, colour variation may occur between batches. Fosroc recommends using Nitoflor HB300 U from a single batch as the final finish in one area section.

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Technical Advice

For further information on this or any other Fosroc product, please contact your local Fosroc office.

Note

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