

Nitoflor HB200 UT

High-build polyurethane coating

Uses

Fosroc Nitoflor HB200 UT is a three-part polyurethane coating designed as a sealer for Nitoflor Coving UT mortar.

Appearance

Matt surface with coloured finish

Non Taint

Nitoflor HB200 UT is water based and non-tainting.

Chemical Resistance

Fosroc Nitoflor HB200 UT 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. Nitoflor HB200 UT 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 should not affect the product service integrity or durability.

Application Conditions

Application temperature range is +5°C - +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 HB200 UT.

Properties, 28 days at 20°C

Compressive Strength	
BS 6319-2	50 MPa
Tensile Strength	
BS 6319-7	8 MPa
Flexural Strength	
BS 6319-3	14 MPa
Pull Off Adhesion	
	> Concrete
Taber abrasion resistance (ASTM D4060)	
H22 wheels, mg/1000 cycles	300
CS17 wheels, mg/1000 cycles	150
Water absorption	
ASTM C413	0,2%
Service Temperature	
	-45°C to +120°C
Application Temperature	
	+15°C to +30°C

Cure Schedule at 30°C

Pot life	
Nitoflor HB200 UT	15 mins

Note: Usable working life of material following mixing and immediate spreading as per the application instructions.

Finished coating	
Cure time to light pedestrian traffic	16-48 hours
Cure time to light traffic	24 hours
Cure time to heavy traffic	48 hours
Full chemical resistance	7 days

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

Application Instructions

Nitoflor HB200 UT is four-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 filler 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 coats (using the coverage rate below) rather than one heavy coat.

Supply	
Nitoflor HB200 UT	4.18 kg packs
Component A (Base)	1 kg
Component B (Hardener)	1 kg
Component C (Filler)	2 kg
Component D (Color Pot)	0.18 kg
Consumption	
Nitoflor HB200 UT (WFT per coat ~ 200 microns)	0,300 kg/m ² /coat

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 HB200 UT is available in a range of standard Fosroc colours. Nitoflor HB200 UT is not colour fast and may yellow over time. The rate of change will depend on UV light and heat levels. This will be more pronounced with lighter colours and blue shades and does not compromise the product's performance or chemical resistance characteristics.

Nitoflor HB200 UT

Cleaning

Regular cleaning is essential to enhance and maintain the life expectancy, slip resistance and appearance of the floor. Fosroc Nitoflor HB200 UT 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 HB200 UT 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

Nitoflor HB200 UT is non-flammable.

Storage

Fosroc Nitoflor HB200 UT has a shelf life of 12 months if stored in unopened packs between 10°C and 30°C (6 months for filler component). 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, >75% or if the surface temperature is <5°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 design strength of concrete surfaces must be a minimum of 25 MPa compressive strength at 28 days.

The manufacture of Fosroc Nitoflor HB200 UT is a batch process and despite close manufacturing tolerances, colour variation may occur between batches.

Technical Advice

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

Note

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† See separate data sheet



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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 Service. All Fosroc datasheets are updated on a regular basis. It is the user's responsibility to obtain the latest version.

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