

Fosroc® Nitoflor Coving UT

Trowel applied polyurethane coving mortar

Description

Fosroc Nitoflor Coving UT is a three-component trowel applied coving mortar. To be used in conjunction with Fosroc Nitoflor HB200 UT, a polyurethane based sealer system.

Typical application areas include industries where hygiene is a priority, particularly areas with a regular cleaning regime, notably: food and beverage production; dairy processing; pharmaceutical; and engineering process areas.

Appearance

Matt surface with a lightly coloured finish

Advantages

- Easy to clean
- Non tainting
- Seamless
- Maintains the integrity of the floor system

Thickness

3 – 9 mm

Non Taint

Nitoflor Coving UT is water based and non tainting.

Chemical Resistance

Fosroc Nitoflor Coving UT, when cured, must be coated with the appropriate colour of Fosroc Nitoflor HB200 UT. Nitoflor Coving UT sealed with 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 (methanol & ethanol). Nitoflor Coving UT sealed with Nitoflor HB200 UT is also resistant to a 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. See separate data sheet for Fosroc Nitoflor HB200 UT.

Substrates

Concrete, polymer modified screeds, grano concrete.

Typical Properties, 28 days at 20°C

Compressive Strength, BS6319-2, MPa	56.4
Tensile Strength, BS6319-7, MPa	4.8
Flexural Strength, BS6319-3, MPa	13
Pull Off Adhesion	> Concrete
Service Temperature 9mm	-45°C to +120°C
Application temperature range	+15 to + 30°C

Cure schedule at 30°C

Working life of full packs *

Nitoflor Coving UT	15 minutes
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* Usable working life of material following mixing and immediate spreading as per the application instructions

Finished system

Cure time to light pedestrian traffic	8 hours
Cure time to light wheeled traffic	24 hours
Cure time to heavy duty 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 Conditions

Ideal ambient and substrate temperature range is 15-25°C to achieve best results. Localised heating or cooling equipment may be required outside this range, to achieve the ideal temperature condition. The product can be applied outside this ideal temperature range (subject to a minimum of 10°C and maximum of 34°C) but this can be expected to have a negative effect on surface finish. The components or pack to be stored in a cool, dry, shaded area preferably controlled at 20-25°C in order to control product temperature, working life and return to service.

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, from before priming to at least 48 hours after application of Nitoflor Coving UT.

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Surface Preparation

Inadequate preparation will lead to loss of adhesion and failure. Smooth polished prepared substrates offer limited key so a slightly profiled finish achieved by grinding, vacuum-contained shot-blasting or light scabbling is therefore preferred.

Percussive scabbling or acid etching is not recommended

New concrete floors

The base should be a minimum of Grade RC30 of BS 8500-2: 2002 and should not contain a water repellent admixture. The surface strength when assessed using a rebound hammer should be above 25 or the surface tensile strength should exceed 1.5 MPa.

The laitance and any surface sealer or curing membrane should be removed by mechanical means such as shot-blasting, grinding or light scabbling to expose the coarse aggregate. After surface preparation, all loose debris and dirt should be removed by vacuum equipment.

For concrete bases in contact with the ground, a damp-proof membrane should have been incorporated into the slab design, in accordance with the requirements of CP102 (Code Of Practice For Protection Of Buildings Against Water From The Ground).

Old concrete floors

All laitance and surface contamination, e.g. oil, paint and rubber, should be removed by mechanical means such as shot-blasting or grinding to expose the coarse aggregate. After surface preparation, all loose debris and dirt should be removed by vacuum equipment. Heavy oil or grease deposits should first be removed either mechanically, by steam cleaning, or by biological treatment, then by high pressure water blasting followed by the application of a penetrating primer. Where oil or grease contamination has been severe or of long duration, none of these methods may prove satisfactory and in these cases removal of the affected base would be necessary.

In existing buildings without a functioning damp-proof membrane, the application of a surface-applied membrane should be considered. Hydrostatic pressure may, under certain circumstances, cause adhesive failure between the flooring and the substrate. Where this is likely to occur, such as in areas where the ground water table is higher than the substrate, and where external tanking has not been applied, pressure relief must be provided e.g. by direct drainage.

A close visual examination should be made to verify cleanliness and soundness. Any weak or suspect areas should be repaired.

Application Instructions

Priming

Priming is carried out using a mix of Part A and Part B only. Thoroughly drain the contents of the hardener component into the base component and mix for a minimum of 1 minute or to provide a homogeneous mix. Apply by roller or brush and spread uniformly at the rate of approximately 5m²/1kg set depending on the substrate.

Nitoflor Coving UT must be applied wet to wet onto the primed surface before the primer is cured.

Application of Nitoflor Coving UT

Fosroc Nitoflor Coving UT 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 to provide a homogeneous mix. The resultant mixture should then be loaded into a rotary drum mixer and the aggregate component loaded and mixed in stages, then mix for three minutes or until a lump-free mix is obtained. Compaction is best achieved through a coving trowel.

Finish using a steel float and coving trowel

Supply

Nitoflor Coving UT	: 13 kg packs
Part A (base)	: 1 kg
Part B (hardener)	: 1 kg
Filler	: 11 kg

Coverage

Nitoflor Coving U T : 1.8 - 2.0 kg/m²/mm thickness
Based on a 75mm standard cove, 13kg will cover 3.8 lin.m

Note : Coverage figures are a guide. actual site figures may vary, due to wastage and the type of substrate used.

Colours

Fosroc Nitoflor Coving UT is available in a single, neutral colour. The appropriate colour is achieved by sealing with Nitoflor HB200 UT, see separate TDS.

Cleaning

Regular cleaning is essential to enhance and maintain the life expectancy, slip resistance and appearance of the floor. Fosroc Nitoflor Coving UT coated with Nitoflor HB200 UT can be easily cleaned using industry standard cleaning chemicals and



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techniques. consult your cleaning chemical and techniques. Consult your cleaning chemical and equipment supplier for more information.

Health and safety

Fosroc Nitoflor Coving 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 Sheets for further information

Fire

Fosroc Nitoflor Coving UT is non-flammable.

Storage, Mixing & Application

Fosroc Nitoflor Coving UT has a shelf life of 12 months if stored off the ground in unopened packs in a dry store under cover at temperature 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 design strength of concrete surfaces must be a minimum of 25 MPa compressive strength at 28 days.

Fosroc Nitoflor Coving UT is supplied in a single, neutral colour and must be coated with the appropriate colour of Nitoflor HB200 UT, see separate data sheet. Should it be exposed, Nitoflor Coving UT 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.

Technical advice

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

Note :

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