

Nitoflor Coving UT

Trowel applied polyurethane coving mortar

Uses

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

It can be applied on concrete, polymer modified screeds, grano concrete.

Properties, 28 days at 20°C

Compressive Strength	
ASTM C579	52 MPa
Tensile Strength	
ASTM C307	5 MPa
Flexural Strength	
BS 6319-3	6 MPa
Pull Off Adhesion	
> Concrete	
Service Temperature	
9 mm	-45°C to +120°C
Application Temperature	
+15°C - +30°C	

Cure Schedule at 30°C

Pot life	
Nitoflor Coving UT	15 minutes

Note: 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°C - 30°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 the application of Nitoflor Coving UT.

Nitoflor Coving UT

Surface Preparation

Inadequate preparation will lead to loss of adhesion and failure. In coatings or flow-applied systems, there is a tendency for the finish to mirror imperfections in the substrate. Grinding or light vacuum enclosed shot-blasting is therefore preferred over planing. 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, grinding or light scabbling 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 must be repaired.

Application Instructions

Priming

Priming is carried out using a mix of Base, Part A and Hardener, Part B only. Thoroughly drain the contents of the hardener component into the base component and mix for a minimum of 1 minute to give a homogeneous mix. Apply by roller or brush and spread uniformly at the rate of approximately 0,200 kg/m² 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 filler 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	11 kg packs
Part A (Base)	1 kg
Part B (Hardener)	1 kg
Filler	9 kg
Consumption	
Nitoflor Coving UT	1,8 – 2,0 kg/m ² /mm
Based on a 75 mm standard cove, 14 kg will cover 4 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 techniques. Consult your cleaning chemical and equipment supplier for more information.



Nitoflor Coving UT

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

Nitoflor Coving UT is non-flammable.

Storage

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, >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.

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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† See separate data sheet



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