

Fosroc Nitoproof 230



constructive solutions

Rubberised high build elastomeric membrane

Uses

Nitoproof 230 is an elastomeric high build, cold applied, rubberised bitumen. Suitable for use as a waterproofing membrane on all wet area floors, walls and roofs where concrete substrate cracking may occur. Also suitable for protecting concrete foundations, tie beams and substructures from vapour / chloride / sulphate contaminated soil in areas above the watertable. Nitoproof 230 will bridge minor live cracks. It is also designed to provide a continuous barrier to the passage of water and water vapour and can be used to produce vapour barriers.

Advantages

- Single component
- Water based - non toxic
- Damp tolerant & applicable on green concrete
- Elastomeric
- Non flammable
- Resists attack by chloride and sulphate ions
- Asbestos free
- Suitable for horizontal and vertical application
- Suitable to use as curing compound

Standards compliance

Nitoproof 230 complies with concrete curing requirements of ASTM C309-93 when applied at a rate of 0.87m²/litre.

Nitoproof 230 complies with ASTM E84 for Flame Spread Index(FSI) and Smoke Development Index(SDI) : Class A.

Description

Nitoproof 230 is a high build rubber reinforced bitumen emulsion. The emulsion is dark brown in colour and dries to form a black, flexible coating. Nitoproof 230 is formulated for use in Middle East conditions.

Specification

Elastomeric rubberised bitumen emulsion waterproofer.

Concrete surfaces shall be waterproofed with Nitoproof 230, an elastomeric high build rubberised bitumen emulsion. Two coats shall be applied each at a rate of 0.87m² per litre providing a total dry film thickness of 1.5 mm. The two coats shall be applied at right angles to each other.

Nitoproof 230 complies with ASTM E84 for Flame Spread Index(FSI) and Smoke Development Index(SDI) : Class A.

Properties

Drying time	: 6 hours @ 35°C
Solid Contents	: 55 - 60%
Overcoating time	: 12 hours minimum @ 35°C
Chemical resistance	: Resistant to water, aqueous salt solutions, common detergent solution, mild mineral acid and alkali solutions. Not resistant to organic solvents.
Reaction to fire (ASTM E84)	: Class A Flame Spread Index (FSI) and Smoke Development Index (SDI)

Note: Drying & Overcoating times will be extended under conditions of low temperature and high humidity.

Instructions for use

Surface Preparation

All surfaces must be clean and dry and free from dirt, dust, oil and grease. All loosely adhering particles such as rust, scale, cement laitance etc should be removed. All organic growth should be removed using a fungicidal wash, followed by thorough washing with clean water.

Application

Nitoproof 230 should be applied by brush or squeegee to prepared surfaces. Stir well before use, replace lid when not in use. Soak up any spillage with sand or sawdust and wash down surface immediately.

Damp proof membrane and vertical vapour barrier

Apply Nitoproof 230 at the rate of 0.87m² per litre per coat to give a dry film thickness of 0.75 mm. Two coats should be applied, allowing the first coat to dry completely before applying the second. The second coat should be applied at right angles to the first. All applications should be continued up verticals to the existing damp proof course. Ensure the membrane is not punctured or damaged during subsequent operations. Where the surface is to receive a render or plaster finish, a keyed surface should be formed by gritting the second coat of Nitoproof 230 with clean, dry sand. Allow a minimum of 48 hours drying period before plastering, rendering, laying floor screed and backfilling.

Fosroc Nitoproof 230

Repairs

Damaged areas of Nitoproof 230 can be readily overcoated to restore the continuity of the membrane.

Cleaning

Nitoproof 230 can be removed with clean water, however once the Nitoproof 230 has dried, it can only be removed with Fosroc Solvent 102.

Limitations

Application should not commence if the temperature is below 6°C or above 45°C.

Technical support

Fosroc offers a comprehensive technical support service to specifiers, end users and contractors. It is also able to offer on-site technical assistance, an AutoCAD facility and dedicated specification assistance in locations all over the world.

Estimating

Supply

Nitoproof 230	:	20 & 200 litre drums
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Coverage

Nitoproof 230	:	0.87m ² /litre/coat (to comply with ASTM C309)
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Storage

Nitoproof 230 will have a minimum shelf life of 12 months if stored in normal warehouse conditions between 15 and 40°C. Protect from temperatures below 10°C.

Precautions

Fire

Nitoproof 230 is non-flammable.

Fosroc Solvent 102 is flammable. Ensure adequate ventilation. Do not use near a naked flame and do not smoke during use.

Flash points

Fosroc Solvent 102	:	33°C
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Additional Information

Fosroc manufactures a wide range of complementary products which include :

- waterproofing membranes & waterstops
- joint sealants & filler boards
- cementitious & epoxy grouts
- specialised flooring materials

Fosroc additionally offers a comprehensive package of products specifically designed for the repair and refurbishment of damaged concrete. Fosroc's 'Systematic Approach' to concrete repair features the following :

- hand-placed repair mortars
- spray grade repair mortars
- fluid micro-concretes
- chemically resistant epoxy mortars
- anti-carbonation/anti-chloride protective coatings
- chemical and abrasion resistant coatings

For further information on any of the above, please consult your local Fosroc office - as below.

* Denotes the trademark of Fosroc International Limited

† 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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