

Nitoproof 30

(Formerly Nitoproof 30HL)

Multi-purpose, rubberised, bitumen emulsion

Uses

Nitoproof 30 is a bitumen rubber / latex compound designed for use in damp proofing applications. Nitoproof 30 is suitable for uses such as a damp proof membrane to retaining walls, as a vapour barrier to panels and repairing fine cracks in asphalt surfaces:

Advantages

- Excellent adhesion to most common building materials
- Low water vapour permeability
- Can be applied to “green” concrete
- Resistant to sulphates and ground salts
- Highly effective vapour seal.
- Dries to a flexible film
- Effective as an adhesive/bonding agent for cork panels, insulation boards, expanded polystyrene etc.
- Simple to apply by brush

Description

Nitoproof 30 is a rubber reinforced, bitumen emulsion. It is supplied as a single component liquid, dark brown in colour, which dries to form a black, flexible coating. Nitoproof 30 is applied by brush or squeegee. The incorporation of rubber latex imparts elasticity to the dried coating. Nitoproof 300 is suitable for use on most building materials such as concrete, brickwork, metals and stone. It is easily applied and may be used on damp surfaces, provided that no free water is present. It can also be applied to “green” concrete immediately shuttering has been struck. Where it is used as a sandwich membrane in floors, Nitoproof 30 should have continuity with the damp courses.

Standards compliance

Nitoproof 30 complies with the concrete curing requirements of ASTM C309, when applied at the rate of 4m² per litre.

Nitoproof 30 is available in drums and may be applied directly to the substrate by brush or squeegee.

Specification

Where shown on the contract documents, below ground surfaces shall be protected with Nitoproof 30, a rubberised bitumen emulsion, applied at the rate of 1 m² per litre giving a total dry film thickness of minimum 600 microns.

| | |
|-------------------------|---------------------|
| Form | : Dark brown liquid |
| Specific gravity | : 1.00 |
| Solids content | : 60 to 65% |
| Rubber content | : Approx. 10 % |
| Drying time | : 30 mins at 25°C |
| Overcoating time | : 1 hour @ 25°C |

Instructions for use

Surface preparation

All surfaces must be clean, dry and free from dirt, dust, oil and grease.

Application

Nitoproof 30 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 immediately.

Damp proof membrane and vertical vapour barrier

Apply Nitoproof 30 at the rate of 1m² per litre, to give a minimum dry film thickness of 600 microns, as per CP102:1973.

For vertical applications, ensure that there is no material sag. This can be best achieved by multiple coat applications at a maximum rate of 200 microns per coat. For multiple coat application, 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 that the membrane is not punctured or damaged during subsequent applications.

Where the surface is to receive a render or plaster finish, a keyed surface should be formed by ‘gritting’ the second coat with clean, dry sand. Allow a minimum of 48 hours drying period before applying a plaster, render or floor screed.

Flooring adhesive

Nitoproof 30 is a very effective adhesive for laying wood blocks, cork, asphalt and asbestos tiles. The surface should be clean, dry and smooth. Nitoproof 30 should be applied to the floor screed using a notched trowel, and then left to become tacky after which the tiles should be pressed firmly into place.

Any contamination of the tile’s upper surface should be cleaned immediately using a cloth-refer to any special recommendations made by the tile manufacturer.

Adhesive for insulation

Nitoproof 30 is suitable for bonding insulation materials such as polystyrene, fibreboard and cork slabs to walls and floors.

The two surfaces to be bonded must be clean, level and free from all points of contact. Nitoproof 30 should be applied to both surfaces and left to become tacky (colour begins to darken). The two surfaces should then be pressed firmly and evenly together.

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Repairs

Any damaged areas can be readily overcoated to restore the membrane continuity - provided the surface is properly prepared.

Cleaning

Nitoproof 30 can be removed using only clean water, whilst still damp. If left to dry, then Fosroc Solvent 102* must be used.

Limitations

- Nitoproof 30 is not a structural adhesive, therefore mechanical fixing should be used where appropriate.
- Application should not commence below 6°C or above 45°C.
- Avoid application during windy atmospheric conditions. Application during such periods might cause cracking.
- For application in harsh climatic conditions, 'Nitoproof 600' is recommended.

Limitations

Supply

Nitoproof 30 : 20 and 200 litre drums

Theoretical coverage

(actual coverage rates will depend upon substrate porosity)

General use : 1m² per litre to give 600 microns dft

Curing compound to give 150 micron dft : 4m² per litre per coat

Storage

Nitoproof 30 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

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

Flash point

Fosroc Solvent 102 : 33°C

Health and safety

Some people are sensitive to resins and solvents, so gloves and barrier creams (e.g. Kerodex Antisolvent) should be used when handling these products. Remove any contamination from the skin with soap and water, or resin removing creams (e.g. Kerocleanse Standard Grade Skin Cleaner) followed by washing with soap and water. Do not use solvent.

The use of goggles is also recommended, but should accidental eye contamination occur, wash thoroughly with plenty of clean water and seek medical treatment immediately.

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Important note

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