

Fosroc Nitoproof 110



constructive solutions

Flexible, bituminous protective coating

Uses

Nitoproof 110 is designed to provide a continuous barrier to the passage of water and water vapour and can be used to produce vapour barriers, damp proof courses, below ground concrete protection, concrete curing by water retention, and corrosion protection to metal surfaces.

Advantages

- Single component
- Easily and inexpensively applied; high coverage rate
- Tough and resistant to most naturally occurring chemicals
- Can be applied to damp concrete substrates
- Quick drying
- Excellent adhesion to most common building substrates
- Excellent water retention for use as a curing compound

Standards compliance

Nitoproof 110 complies with BS6949:1991 and ASTM C309 water retention requirements for curing membranes.

Description

Nitoproof 110 low viscosity blend of selected bitumens dries to form a high quality tough bitumen film. Nitoproof 110 can be applied by brush, roller or spray equipment to prepared surfaces for a variety of purposes.

Properties

Test method	Typical result
Overcoating time	: 2hours (min) @ 35°C
Bitumen content	: Min. 60%
Specific Gravity	: 1.02

Instructions for use

Preparation

Surfaces must be clean, dry, free from oil, grease and all loosely adhering particles such as rust, mill scale, mortar and cement laitence. These should be carefully removed by wire or stiff brushing and finally soft brushing or filtered compressed air to remove dust.

Oil and grease should be removed by the use of a proprietary degreasing agent. For optimum adhesion to steel, grit blasting to SA2^{1/2} is recommended.

Nitoproof 110 can be applied to damp concrete, brick and plaster surfaces provided there is no free surface water or bleed. A test patch is recommend where there is doubt.

Application

Stir thoroughly prior to use.

Damp-proof membranes, vertical vapour barriers

Apply a full coat of Nitoproof 110 and allow to dry. Coverage rate should be approximately 3m² per litre. Apply a second coat of Nitoproof 110 at right angles to the first coat. If a thicker film build is required, the second coat should be Nitoproof 120^{*†}.

Concrete screeds or render

Where it is necessary to cover the membrane with a screed or render, clean grit 2mm nominal size should be broadcast into the wet second coat to provide a mechanical key.

All loose grit should be removed prior to placing the screed/ render. (Care should be taken to ensure that the membrane is not damaged during placing of the screed).

Curing compound

Apply two coats of Nitoproof 110 as for damp proof membranes. This will give a curing efficiency in excess of 80% and comply with ASTM C309. Nitoproof 110 can be applied to damp concrete.

Repairs

Damaged areas of Nitoproof 110 can be readily overcoated to restore the continuity of the membrane.

Fosroc Nitoproof 110

Cleaning

Tools and equipment should be cleaned with water immediately after use.

However once the Nitoproof 110 has dried it can only be removed with Fosroc Solvent 102.

Limitations

Application should not commence if the temperature of the substrate is below 6°C or above 50°C.

Technical support

Fosroc offers a comprehensive range of high performance, high quality repair, maintenance and construction products. In addition, Fosroc offers a technical support package to specifiers, end-users and contractors, as well as on-site technical assistance in locations all over the world.

Estimating

Supply

Nitoproof 110	:	20 and 200 litre drums
Fosroc Solvent 102	:	5 litre cans

Coverage

Nitoproof 110	:	2.0-7.0m ² /litre per coat depending upon substrate porosity and smoothness.
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To comply with ASTM C309, 2 coats are required at 5m² per litre per coat.

Storage

Shelf life

At least 12 months if kept in original unopened containers.

Storage conditions

Store under normal warehouse conditions between 15 and 40°C in original unopened containers. Protect from temperatures below 10°C.

Precautions

Health and safety

Some people are sensitive to resins and solvents so gloves and a barrier cream such as Kerodex Antisolvent, Rozalex Antipaint, Debba-Wet Work or similar should be used when handling these products. Remove contamination from the skin with soap and water or a resin removing cream such as Kerocleanse Standard Grade Skin Cleanser or Rozaklens Industrial Skin Cleanser. Follow by washing with soap and water. **Do not** use solvent. The use of goggles is recommended but should accidental eye contamination occur, wash thoroughly with plenty of water and seek medical treatment immediately.

Replace lid when not in use. Soak up any spillage with sand or sawdust.

Fire

Nitoproof 110 is not 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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* Denotes the trademark of Fosroc International Limited

† See separate data sheet



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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