

Fosroc Nitoproof 120



constructive solutions

Fibre reinforced bituminous protective compounds

Uses

Used in conjunction with Nitoproof 110*, Nitoproof 120 will provide a dry film thickness complying with BS 8102 for concrete protection and waterproofing. It 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

- Asbestos free
- Single component
- Easily and inexpensively applied
- Resistant to most naturally occurring chemicals
- Odourless and taint free when dry
- Excellent flexibility
- Used for over 30 years in a wide range of environments

Standards compliance

Nitoproof 120 complies with ASTM D1227:1995, Type 2 : Class 1.

Nitoproof 120 complies with ASTM C 309 water retention properties, when applied at a rate of 2.5m²/litre.

Nitoproof 120 complies with ASTM E84 for Flame Spread Index(FSI) and Smoke Development Index(SDI) : Class A.

Description

Nitoproof 120 is based on selected bitumens that are blended together with non-asbestos reinforcing fibres to provide an outstanding liquid grade material used for intermediate thickness coating. When dry Nitoproof 120 produces quality, high film build flexible bitumen coating.

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.

Properties

Solids content	: approx. 55%
Specific gravity @ 20°C	: 1.0
Flexibility (BS3416)	: Pass
Drying time	: 4-8 hours @ 20°C for thickness up to 0.5mm. Drying times will be longer for lower temperatures and higher thicknesses.
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)

Instructions for use

Preparation

All surfaces must be clean and dry and all loosely adhering particles such as rust, mill scale, mortar, cement laitance etc should be carefully removed by wire or stiff brushing and finally soft brushing to remove dust.

Surfaces must be free from oil and grease. In the case of cementitious surfaces, oil and grease can be removed with proprietary chemical degreaser and in the case of steelwork, oil or grease should be removed by Fosroc Solvent 102*.

Surfaces to be treated with Nitoproof 120 coating should always be primed with Nitoproof 110.

Application

Stir well until a homogeneous mix is achieved. In case of part use close the drum tightly in order to avoid the gelling of the part material. Nitoproof 120 can be applied by brush, roller or spray equipment.

Below Ground

Apply Nitoproof 110 as a prime coat onto the prepared substrate. Apply Nitoproof 120 evenly over the dry primed surface.

Economy roof membrane for non-critical areas

For low cost roofing application, the roof slab should be at least 28 days old, the surface prepared by priming with Nitoproof 110.

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Cracks will be highlighted as the bitumen coating dries and when completely dry, should be dealt with by applying 1 coat of Nitoproof 120 over the cracks at 1mm thickness, 50mm either side. Nitoproof Scrim* reinforcement should then be embedded into the Nitoproof 120 then overcoated with a second coat of 1mm w.f.t..

Vertical upstands should be coated with Nitoproof 120 after the Nitoproof 110 primer has dried and turned down onto the deck for 75mm (over a 20x20mm sand/cement fillet).

When the Nitoproof 120 applied to the upstands has dried, Nitoproof 120 should then be applied to the whole roof area at a w.f.t. of 1mm (1 litre / m²) overcoating all preparatory work.

Protection boards should be employed to protect Nitoproof 120 from foot traffic damage when applied on horizontal surfaces. Extra care should be taken when Nitoproof 120 is exposed to direct sunlight.

After 7 days the whole roof area should be coated with Nitoprime 32 followed by Nitoproof Reflectacoat**† solar reflective coating. Care should be taken not to damage the membrane whilst the Nitoproof Reflectacoat is being applied.

After a further 3 days a second application of Nitoproof Reflectacoat should be applied. For accessible roofs subject to regular foot traffic or for fully insulated roofs, please consult Fosroc for advice.

Cleaning

Clean all tools and equipment with Fosroc Solvent 102.

Limitations

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

Nitoproof 120 Dubai Civil Defence does not include the application on any substrate forming a building facade system.

Storage

Nitoproof 120 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. Store away from direct sources of heat or naked flames.

Estimating

Supply

Nitoproof 120	: 20 and 200 litre drums
Nitoproof 110	: 20 and 200 litre drums
Nitoproof Scrim	: 1000 mm (w) x 50 m (l)

Coverage

Nitoproof 120	: 1.0-2.5m ² /litre/coat
Nitoproof 110	: 2.0-7.0m ² /litre per coat depending on substrate porosity/smoothness

Precautions

Fire

Nitoproof 120 and Nitoproof 110 are non-flammable.

Health and safety

Remove spillages from skin with soap and water or a resin removing cream such as Kerocleanse 22. **Do not** use solvent. Any eye contamination should be washed with copious quantities of clean water and medical treatment sought.

If ingested obtain medical attention. Do not induce vomiting. Avoid prolonged inhalation of the vapour. Ensure adequate ventilation.



"Refer to www.tbwcert.com for validity and full documentation"

* 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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