

# Fosroc® Nitoproof 210



constructive solutions

(Replaces Emer-Proof Aqua Barrier Landscape)

## High performance water based rubberised bitumen waterproofing membrane with root penetration inhibitor

### Uses

- Waterproofing of: Retaining walls  
Planter boxes  
Building foundation walls  
Below ground tanking structures
- Waterproofing/damp proof sandwich membrane
- Bond breaker for key joints and dowel bars

### Advantages

- Self priming on most common substrates (refer Priming)
- Excellent cold flexibility and elongation
- Contains root penetration inhibitor
- Low VOC
- Fast drying
- Excellent resistance to ponding water
- Non-toxic
- Non-flammable

### Description

Nitoproof 210 is a high performance single component water based bituminous rubberised waterproofing membrane. Developed for the Residential & Commercial construction industry.

It forms a highly flexible monolithic waterproofing membrane.



### Technical support

Parchem offers a comprehensive range of high performance, high quality waterproofing and construction products. In addition, Parchem offers a technical support package to specifiers, contractors and end-users, as well as on-site technical assistance.

### Design Criteria

Nitoproof 210 is designed to be applied in two or more coats to produce a minimum dry film thickness of 1.0 to 1.3mm.

When required, Nitoband Tape system should be installed first in accordance with the Technical Data Sheet for the system.

The stirred Nitoproof 210 is laid onto the surface continually in one direction and each successive coat should be applied perpendicular to the previous coat. Allow 4 hours for film to dry between coats.

Nitoproof 210 should be protected from mechanical damage with Proofex Protection Board PP, or Proofex Sheetdrain 81 drainage and protection sheet, both are available from Parchem.

### Coverage

Nitoproof 210 shall be diluted at 1:1 by volume with water as a primer on porous substrates. Apply 1 coat of primer achieving a coverage between 0.4 - 0.8L/m<sup>2</sup> depending on the porosity and condition of the substrate.

Then Nitoproof 210 should be applied in a 2 coat application achieving a minimum coverage of 1.5 L/m<sup>2</sup> (total) for general waterproofing applications. For heavier sealing properties, total coverage can be increased to 2 L/m<sup>2</sup> with subsequent coats. Approximate total coverage: 1.5 - 2L/m<sup>2</sup> on primed surface.

Minimum Wet film thickness per coat: 0.75mm (750 microns)

Total Dry film thickness: 1 - 1.3 mm

### Specification Clause

Where required, a water based bituminous rubberised liquid membrane is to be applied to offer a durable and waterproof area. The membrane shall achieve elongation >300%, tensile strength 1.47 MPa and 60% solids content. The Nitoproof 210 from Parchem Construction Supplies meets the performance criteria and is an approved product.

### Properties

Data quoted is typical for this product, but does not constitute a specification.

<b>Solids:</b>	60%
<b>Colour:</b>	Black
<b>VOC content:</b>	8g / litre
<b>Tensile strength:</b>	1.47 MPa
<b>Shore A hardness:</b>	50 - 55
<b>Elongation:</b>	>300%

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### Application Instructions

#### Priming

Substrates must be primed, prior to the application of Nitoproof 210.

Nitoproof 210 is self-priming on most porous surfaces. Dilute Nitoproof 210 1:1 by volume with water, stir until homogeneous and then apply using a brush or a roller. Always add water to Nitoproof 210 and do not dilute more than 1:1.

For non-porous substrates, such as metals and plastics, Nitoprime 115 may be selected (see separate data sheet for further details)

#### Damp surfaces - entrapped moisture

Seek technical advice from Parchem.

#### Cracks

Cracks larger than 2mm or structural shrinkage cracks must be firstly filled with a flexible polyurethane type sealant such as Nitoseal PU250 or Nitoseal PU400 and then a 50mm wide polyethylene tape placed over the crack prior to the application of Nitoproof 210. Alternatively the cracks can simply be covered with the Nitoband Tape system. See Nitoband system technical data sheet.

#### Fillets and small repairs

Nitoproof 210 mixed with sand and cement can be used to create corner fillets and repair small voids/minor damage to concrete before membrane is applied. Mix equal parts of fine clean sand and cement, dampen with water then mix in Nitoproof 210 until a smooth paste is achieved. Apply this paste to primed concrete; allow to stiffen before applying the Nitoproof 210 membrane.

#### Nitoband Tape, Corners and Detailing Accessories

The Nitoband Tape System has been specifically developed by Parchem as a superior bond breaker system to traditional sealants and bond breaker tapes.

The Nitoband System includes tape (for change of direction – such as wall/wall and wall/floor joints etc.), both 270° external and 90° internal corners, an adjustable internal corner as well as three (3) size variations on pipe detailing squares (suitable from 6mm to 150mm pipe diameters).

If being used in tanking and waterproofing applications, the Nitoproof 210 requires a suitable bond breaker at all substrate junctions. Parchem nominates the Nitoband Tape System which includes tape, corners and pipe penetration detailing squares or equivalent bond breaking methods compliant with local waterproofing standards and building recommendations.

#### Mixing

Nitoproof 210 membrane should be lightly stirred before using.

### Membrane Application

Ensure the surface has been appropriately prepared in accordance with this product data sheet.

Nitoproof 210 may be applied with a roller (12 mm nap recommended), brush or standard airless sprayer (piston pump unit, 21 - 25 thou tip size) - thoroughly mix product before spraying. Its smooth texture and non-sag formulation makes it suitable for vertical and horizontal application.

The Nitoband System should be installed first. Apply the mixed Nitoproof 210 across the substrate joints extending approximately 70mm either side of the joint.

Whilst the Nitoproof 210 is still in a wet state install the Nitoband Tape / corners and accessories ensuring that all air voids are expelled. Nitoband Joint corners should be placed in first followed by the Nitoband Tape.

The Nitoband Tape, corners and pipe detailing squares can be joined via a 50mm overlap, sandwiching a small amount Nitoproof 210 liquid membrane between the overlapping faces. Each successive coat should be applied at 90 degrees to the previous coat.

Nitoproof 210 is laid onto the surface continually in one direction; maintain wet film thickness. Brooms, brushes etc. should be regularly washed during the operation and at any breaks as follows: Keep available a container filled with sufficient strong detergent / water solution to fully cover the broom or brush. Soak the brush in the solution and shake out before use. As work progresses, rinse the brush at frequent intervals to prevent it clogging, and again shake out before resuming. During any breaks in work the brushes should be left to soak in this solution.

Allowing a drying time of 4 hours between coats.

Conduct a final inspection on the surface of the membrane prior to commencing back-filling to ensure no pinholes exist. A further coat may be required if imperfections or pinholes are present in the membrane.

#### Recoating

Nitoproof 210 may be recoated 4 hours after previous coat has been allowed to dry.

Shorter times may be acceptable in good drying times.

#### Key joints and dowel bars

Nitoproof 210 is suitable as a coating on key joints and dowel bars. Provided the Nitoproof 210 is allowed to dry prior to pouring the next section of concrete, it forms an effective slip layer and so allows relative movement between sections.

#### Drying Times

	23°C, 50% RH	10°C, 50% RH
Recoat time:	4 hours	8 hours
Dry film:	24 hours	48 hours
Backfilling:	3 days	4 days



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### Protection

Where the membrane is to be back filled, such as with basement applications, Nitoproof 210 should be protected from mechanical damage with Proofex Protection Board PP or Proofex Sheetdrain 81 drainage/protection system also available from Parchem.

### Cleaning

Splashes of Nitoproof 210 on paintwork etc. should be wiped off immediately using a cloth dampened with water and a strong detergent solution. Brushes and brooms etc. should be soaked in a strong detergent solution immediately after application has finished. Hands and skin may be cleaned using a proprietary waterless hand cleaner, but prevention of soiling is better practice by wearing gloves and overalls.

Where Nitoproof 210 has been allowed to dry on equipment or surfaces it may be removed using either Fosroc Solvent 10 or mechanical means.

### Maintenance

No special requirements, any damage identified during normal inspections should be repaired or replaced as appropriate.

### Limitations

Nitoproof 210 is not recommended for continuous water immersion or as a membrane on internal walls subject to back pressure.

Nitoproof 210 has not been designed as an exposed wearing course membrane. Nitoproof 210 must be covered and cannot be exposed to UV on a permanent basis. Not designed to be finished directly over with tiles, screeds, renders or paints.

### Please Note:

Application of all liquid applied membranes and primers should always refer to the surface temperature conditions before commencing and not just ambient temperatures. (There are limitations to how hot/cold the surface temperature can be, when applying liquid based membrane or primer).

For example: ambient temperatures may be 10°C but the substrate could be 0°C and have frost issues. The same applies with higher temperatures: ambient temperature may be 26°C but have a substrate temperature of 36°C.

### Important notice

A Safety Data Sheet (SDS) and Technical Data Sheet (TDS) are available from the Parchem website or upon request from the nearest Parchem sales office. Read the SDS and TDS carefully prior to use as application or performance data may change from time to time. In emergency, contact any Poisons Information Centre (phone 13 11 26 within Australia) or a doctor for advice.

### Product disclaimer

This Technical Data Sheet (TDS) summarises our best knowledge of the product, including how to use and apply the product based on the information available at the time. You should read this TDS carefully and consider the information in the context of how the product will be used, including in conjunction with any other product and the type of surfaces to, and the manner in which, the product will be applied. Our responsibility for products sold is subject to our standard terms and conditions of sale. Parchem does not accept any liability either directly or indirectly for any losses suffered in connection with the use or application of the product whether or not in accordance with any advice, specification, recommendation or information given by it.

### Supply

<b>Nitoproof 210</b>	15L Pail
Material code:	FC000605-15L
<b>Nitoband</b>	120mm wide x 10m Roll
Material code:	FC000612-UNIT

### Coverage

Coverage 1.5 to 2.0 litre / m<sup>2</sup> (2 coats total)

### Shelf Life

Nitoproof 210 has a shelf life of 12 months from date of manufacture if kept in a dry store in the original, unopened containers. Refer to the Use by Date indicated on the packaging.

### Storage Conditions

Store in dry conditions at temperatures between 5°C and 30°C in the original, unopened containers. If stored at high temperatures, the shelf life may be reduced.