

Fosroc® Nitoproof 310



constructive solutions

(Replaces Emer-Proof Aqua Barrier Undertile)

Fibre enhanced single component water based latex waterproofing membrane

Uses

Nitoproof 310 is ideally suited as a general purpose under tile wet area membrane. Typical applications include:

- Wet areas and shower alcoves
- Under tile balcony areas
- Under tile terrace areas
- Sandwich seal between existing and new substrates, e.g. old to new concrete; cement screeds over concrete and CFC surfaces

Advantages

- Low VOC
- Non-hazardous
- Elastomeric and flexible with good tensile strength properties
- Once cured will not re-emulsify,
- Excellent chemical resistance
- Excellent adhesion to primed surfaces
- Compatible bonding properties for tile adhesives, screeds and renders
- Australian Made

Description

Nitoproof 310 is a fibre enhanced single component water based latex membrane that has been designed for a range of waterproofing applications where the membrane is to be covered over with tiles, screeds, concrete beds.

Nitoproof 310 provides a user friendly single component membrane that achieves good film build, with reinforced and elastomeric properties once the membrane has dried.

Nitoproof 310 offers excellent adhesion properties over many primed building substrates. It is fully compatible with polymer modified cement based tiles adhesives, screeds and renders.

Nitoproof 310 is ideally suited as a general purpose under tile wet area membrane.

Design Criteria

Nitoproof 310 is designed to be applied by thick brush or roller. Nitoproof 310 should be applied as two (2) coats with a minimum WFT of 1.5mm (coverage of 1.5 litres/m²) resulting in a minimum DFT of 1.2mm.

Standards Compliance

Nitoproof 310 meets the requirements of:

- AS/NZS 4858:2004 Wet Area Membrane as a Class III membrane
- AS3740:2010 Waterproofing of Wet Areas Within Residential Buildings

Specification Clauses

Where so designated on the drawings, surfaces shall have a liquid applied, flexible waterproofing membrane which is based on a latex compound. The membrane shall be Nitoproof 310.

Areas shall be prepared and the membrane applied in accordance with the current Nitoproof 310 Technical Data Sheet.

Properties

Wet form

Specific Gravity of mixed product:	1.3 kg/litre
Solids content:	>64 %
Appearance:	Thixotropic paste
Colour:	Light Grey
VOC content:	17g / litre

Cured membrane

Elongation:	>350%
Tensile strength:	>5 MPa
Shore A hardness:	40

Drying times @ 23°C

Recoat:	2 to 4 hours
Dry film:	8 to 12 hours
Flood testing:	7 days
Resistance to ponding water:	7 days
Tiling/Toppings:	24 hours

Based on normal ambient conditions of 23°C @ 50% RH. Allow a further minimum 24 hours of drying time @ 10°C

Maintenance

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

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Application Instructions

A minimum of 2 coats is recommended to be applied for 'total' coverage of 1.5 litres/m².

The coverage figures are theoretical – due to wastage factors and the variety and nature of possible substrates, practical coverage figures may be substantially reduced.

Minimum total coverage: 1.5L/m²

Wet Film Thickness = 1.5mm (total 2 coats)

Dry Film Thickness = 1.2mm

Internal wet areas should be waterproofed in accordance with AS3740.

Surface preparation

Surfaces must be clean, sound, stable and free of: loose foreign material; existing coatings; laitance; release agents; curing compounds and oil/grease residues.

All screw / nail heads must be sealed with Nitoseal SC100 and all sheet joints must be covered with Nitoband Tape and associated detailing accessories if required (e.g. internal / external corners and pipe detailing collars) or Nitoseal PU250 or Nitoseal PU400, in conjunction with a bond breaking tape as mentioned under the heading Cracks). See Nitoband Tape System technical data sheet or Nitoseal PU250 or PU400.

Also remove any protrusions from the surface that may pierce the membrane.

Priming

Substrates must be primed, prior to the application of Nitoproof 310 membrane:

Primer choice is defined by substrate requirements:

- For porous masonry surfaces, Nitoprime 120 should be applied at approx. 7m²/L (see TDS for further details)
- For non-porous substrates, such as CFC, wet area timber, ceramic tile, metals and plastics, Nitoprime 115 should be applied at approx. 12m²/L (see TDS for further details)

Damp surfaces - entrapped moisture

Seek technical advice from Parchem.

Movement joints

All expansion and movement joints should be sealed with a suitable sealant, such as Nitoseal PU250 or Nitoseal PU400 and subsequently covered with polyethylene bond breaker tape. Consult Parchem Technical Services for advice on the best method for your application.

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 310.

Alternatively the cracks can simply be covered with the Nitoband Tape system. See Nitoband Tape system technical data sheet.

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 Tape 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 > 150mm pipe diameters).

Parchem nominates the Nitoband Tape System which includes tape, corners and pipe penetration detailing squares as their preferred bond breaking system.

If a sealant is required, Parchem nominates either Nitoseal PU250 or Nitoseal PU400 sealants used in conjunction with a bond breaking tape.

Mixing

Nitoproof 310 membrane should be lightly stirred before using. Make sure not to entrain any air while stirring.

Membrane Application

Apply the first coat of Nitoproof 310 to the primed surface using a thick brush or roller.

For details, install Nitoband tape corners and accessories (as per separate Nitoband Tape System Technical Data Sheet).

After waiting the required 2 to 4 hours (@23°C) re-coat time, re-apply a second coat of Nitoproof 310 at 90° to the first coat, ensuring complete coverage is achieved and no air bubbles exist.

A third coat may be required if imperfections are present in the membrane.

Conduct a final inspection on the surface of the membrane prior to commencing tiling to ensure no pinholes exist.

Once the waterproofing is completed, do not disturb the area for at least 24 hours. Tiling can commence approximately 24 hours after last coat, in which case Nitotile Flex tile adhesive should be used.

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Cleaning

Product while in a wet state will clean up with water. Once dried, product will need to be removed by Fosroc Solvent 10 or by mechanical means.

Splashes of Nitoproof 310 water based membrane on paintwork etc. should be wiped off immediately using a cloth dampened with 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.

Limitations

Nitoproof 310 is not designed for use as a UV exposed membrane.

Nitoproof 310 should not be applied when surface temperatures are below 5°C or above 30°C

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. Nitotile Flex polymer modified cement based tile adhesive is recommended for direct adhesion to the membrane.

Estimating

Supply

Nitoproof 310:	15 litre drum	FC000602-15L
Nitoprime 115:	4 litre	FC000600-4L
Nitoprime 120:	15 litre	FC000601-15L
Nitoband Tape	120mm wide x 10m Roll	FC000612-UNIT
Nitoband Corner Internal 90°	135mm x 135mm – Each	FC000614-UNIT
Nitoband Corner External 270°	135mm x 135mm – Each	FC000615-UNIT
Nitoband Corner Adjustable Internal	135mm x 135mm – Each	FC000613-UNIT
Nitoband Pipe Detailing Square Small	<50mm - Each	FC000616-UNIT
Nitoband Pipe Detailing Square Medium	< 110mm - Each	FC000617-UNIT
Nitoband Pipe Detailing Square Large	< 150mm - Each	FC000618-UNIT

Coverage

Nitoproof 310:	1.5 litres/m ² (Total 2 coats) 10 m ² / 15 litre drum
Nitoprime 115:	12 m ² /litre
Nitoprime 120:	7 m ² /litre
Nitotile Flex:	12 - 14 m ² with a 6 mm notched trowel

Note: These are theoretical yields. No allowance has been made for wastage.

Storage

Shelf Life is 24 months in the original unopened containers stored in cool, dry conditions at temperatures between 5°C and 30°C. Storage above this temperature may reduce storage life.

Refer to the Use by Date indicated on the packaging.

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.



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