



**BRANZ Appraised**  
Appraisal No. 1300 [2026]

## FOSROC NITOPROOF 410 INTERNAL WATERPROOFING MEMBRANE

Appraisal No. 1300 [2026]



### BRANZ Appraisals

Technical Assessments of products for building and construction.



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## Product

1.1 Fosroc Nitoproof 410 Internal Waterproofing Membrane is a water-based, fast-drying, flexible, two-component, polymer-modified cementitious waterproofing membrane for use under trafficable floor finishes in internal wet areas.

## Scope

2.1 Fosroc Nitoproof 410 has been appraised for use internally under trafficable floor finishes within the following scope:

- on floor substrates of concrete, plywood, fibre cement compressed sheet and fibre cement sheet tile underlay, and on wall substrates of concrete, concrete masonry, cement render, wet area fibre cement sheet lining systems and wet area plasterboard lining systems; and,
- when protected from physical damage by trafficable floor finishes; and,
- where floors are designed and constructed such that deflections do not exceed 1/360<sup>th</sup> of the span.

2.2 The use of Fosroc Nitoproof 410 on concrete slabs where a hydrostatic or vapour pressure is present from below is outside the scope of this Appraisal.

2.3 Movement and control joints in the substrate must be carried through the membrane and trafficable floor finish. The design and construction of the substrate and movement and control joints is specific to each building and is therefore the responsibility of the building designer and building contractor and is outside the scope of this Appraisal.

2.4 The trafficable floor finishes are outside the scope of this Appraisal.

2.5 The membrane must be applied by Fosroc trained and approved applicators.

## Building Regulations

### New Zealand Building Code (NZBC)

3.1 In the opinion of BRANZ, Fosroc Nitoproof 410 Internal Waterproofing Membrane, if designed, used, installed and maintained in accordance with the statements and conditions of this Appraisal, will meet the following provisions of the NZBC:

**Clause B2 DURABILITY:** Performance B2.3.1 (b) 15 years and B2.3.2. Fosroc Nitoproof 410 Internal Waterproofing Membrane meets these requirements. See Paragraph 9.1.

**Clause E3 INTERNAL MOISTURE:** Performance E3.3.6. Interior wet area floors and walls incorporating Fosroc Nitoproof 410 Internal Waterproofing Membrane meet this requirement. See Paragraphs 11.1-11.7.

**Clause F2 HAZARDOUS BUILDING MATERIALS:** Performance F2.3.1. Fosroc Nitoproof 410 Internal Waterproofing Membrane meets this requirement.



## Technical Specification

4.1 Materials supplied by Fosroc are as follows:

### General

- **Nitoproof 410 Part A** - the liquid component of the flexible, two-component, polymer-modified cementitious waterproofing membrane. It is a white liquid supplied in 12.5 L pails.
- **Nitoproof 410 Part B** - the powder component of the flexible, two-component, polymer-modified cementitious waterproofing membrane. It is a grey powder supplied in 12.5 kg bags.

### Primers

- **Nitoprime 115** - a single-component water-based primer for non-porous surfaces. It is a green liquid supplied in 4 L pails.
- **Nitoprime 120** - a single-component fast-drying primer for concrete and masonry surfaces. It is a milky white liquid supplied in 15 L pails.

### Accessories

- **Nitoband SA80** - a grey non-woven polypropylene coated with a highly elastic self-adhesive butyl rubber for use as a bond-breaker and sealing tape. It is 80 mm wide and supplied in a 10 m roll.

## Handling and Storage

5.1 All materials must be stored inside, away from direct sunlight, heat, and flame in a dry space at temperatures between 5 and 30°C. Materials must not be removed from their containers until ready to use. The membrane products have a shelf life of 24 months for Nitoproof 410 Part A and 36 months for Nitoproof 410 Part B if kept in the original, unopened packaging.

## Technical Literature

6.1 This Appraisal must be read in conjunction with:

- Fosroc® Nitoproof® 410 (NZ) Technical Data Sheet, v2, Mar 2026.
- Fosroc® Nitoprime® 115 Technical Data Sheet, Mar 2024.
- Fosroc® Nitoprime® 120 Technical Data Sheet, Jul 2019.
- Fosroc® Nitoband® SA80 Technical Data Sheet, Jan 2024.

6.2 All aspects of design, use, installation and maintenance contained in the Technical Literature and within the scope of this Appraisal must be followed.

## Design Information

### General

- 7.1 Nitoproof 410 is for use in buildings where an impervious waterproof membrane is required on floors and walls to prevent damage to building elements and adjoining areas.
- 7.2 The membrane must be protected from physical damage by the application of trafficable floor finishes.
- 7.3 Movement and control joints may be required depending on the shape and size of the building or room, and the trafficable floor finish specified.
- 7.4 Timber framing must comply with NZS 3604, or where specific engineering design is used, the framing shall be of at least equivalent stiffness to the framing provisions of NZS 3604, or comply with the serviceability criteria of AS/NZS 1170. In all cases, framing must be provided so that the maximum span of the substrate as specified by the substrate manufacturer is met. Timber framing supporting the substrates must be constructed such that deflections do not exceed 1/360<sup>th</sup> of the span. Where NZS 3604 is used, the allowable joist spans given in Table 7.1 shall be reduced by 20%.

## Substrates

### Plywood

- 8.1 Plywood must be a minimum of 17 mm thick complying with AS/NZS 2269, CD Grade Structural with sanded C face upwards and treated to H3 [CCA treated]. LOSP treated plywood must not be used.
- 8.2 The plywood must be laid with the face grain at right angles to the floor joists. The plywood must be supported with dwangs or framing with a maximum span of 400 mm in each direction, fixed with 10 g x 50 mm stainless steel countersunk head screws at 150 mm centres on the edges and 200 mm through the body of the sheets.

### Fibre Cement Compressed Sheet/Fibre Cement Sheet Tile Underlay

- 8.3 Fibre cement compressed sheet and tile underlay must be manufactured to comply with the requirements of AS/NZS 2908.2 and must be specified by the manufacturer as being suitable for use as a wet area substrate. Installation must be carried out in accordance with the manufacturer's instructions.

### Concrete and Concrete Masonry

- 8.4 Concrete and concrete masonry substrates must be to a specific engineering design meeting the requirements of the NZBC, such as concrete construction to NZS 3101 and NZS 3604, concrete slab-on-ground floors and concrete masonry to NZS 4229 and NZS 4230.

### Wet Area Wall Linings

- 8.5 Plasterboard wall linings must be manufactured to comply with AS/NZS 2588 and be suitable for use in internal wet areas.
- 8.6 Fibre cement sheet must be suitable for use in wet areas and comply with AS/NZS 2908.2.
- 8.7 Installation of plasterboard or fibre cement wall linings must be carried out in accordance with the instructions of the manufacturer.

## Durability

### Serviceable Life

- 9.1 Nitoproof 410, when subjected to normal conditions of environment and use, is expected to have a serviceable life of at least 15 years and be compatible with trafficable floor finishes with a design serviceable life of 15-25 years.

## Maintenance

- 10.1 No maintenance of the membrane will be required provided significant substrate movement does not occur and the trafficable floor finish remains intact. Regular checks must be made of trafficable finishes to ensure they are sound and will not allow moisture to penetrate. Any cracks or damage must be repaired immediately.
- 10.2 In the event of damage to the membrane, the trafficable finish must be removed and the membrane repaired by removing the damaged portion and applying a patch as for new work.
- 10.3 Drainage outlets must be maintained to operate effectively, and trafficable finishes must be kept clean.
- 10.4 Cleaning materials that may affect polymer-based membranes must not be used.

## Internal Moisture

- 11.1 Nitoproof 410 is impervious to water and when appropriately designed and installed will avoid the likelihood of water penetrating behind linings or entering concealed spaces.
- 11.2 Nitoproof 410 is suitable for use to contain accidental overflow to meet NZBC Clause E3.3.2. A means of code compliance for overflow is given in NZBC Acceptable Solution E3/AS1.
- 11.3 Surfaces must be finished with trafficable floor finishes. A means of code compliance to NZBC Clause E3.3.3 is given in NZBC Acceptable Solution E3/AS1.



- 11.4 Falls in showers and shower areas must be a minimum of 1 in 50. In unenclosed showers, falls must extend a minimum of 1,500 mm out from the shower rose. Floor wastes must be provided, and the floor must fall to the outlet.
- 11.5 The waterproofing membrane must completely cover shower bases, and for unenclosed showers it must extend a minimum of 1,500 mm out from the shower rose. Further design guidance on waterproofing wet areas, including waterproofing walls and junctions can be obtained from AS 3740, and flooring and wallboard manufacturers.
- 11.6 Where water-resistant wall finishes such as prefinished sheet materials are used, they must flash over the membrane a minimum of 30 mm.
- 11.7 BRANZ recommends the entire floor be covered by a waterproof membrane for bath, shower and spa rooms.

## Installation Information

### Installation Skill Level Requirement

- 12.1 Installation of substrates must always be carried out in accordance with the Nitoproof 410 Technical Literature and this Appraisal by, or under the supervision of, a Licensed Building Practitioner (LBP) with the relevant Licence Class.
- 12.2 Installation and finishing of components and accessories supplied by Fosroc and its approved applicators must be completed by trained applicators, approved by Fosroc.

### Preparation of Substrates

- 13.1 Substrates must be dry, clean and stable before installation commences. Surfaces must be even and free from nibs, sharp edges, dust, dirt or other materials such as oil, grease or concrete formwork release agents.
- 13.2 Concrete substrates can be checked for dryness by using a hygrometer as set out in BRANZ Bulletin No. 585. The relative humidity of the concrete must be 75% or less before membrane application.
- 13.3 All voids, cracks, holes, joints and excessively rough areas must be filled to achieve an even and uniform surface. Junctions of substrate abutments, such as at wall/floor or wall/wall junctions and control joints must use installed as set out in the Technical Literature.
- 13.4 Substrates must be primed with a primer as specified by Fosroc and allowed to dry fully before the membrane is installed.

### Membrane Installation

- 14.1 Installation must not be undertaken where the substrate surface temperature is below 5°C or above 35°C.
- 14.2 Nitoproof 410 must be thoroughly mixed in accordance with the Technical Data Sheet before application.
- 14.3 The membrane must be applied in a minimum of two coats at the coverage rates set out in the Technical Literature. Subsequent coats must be applied in the opposite direction to the previous coat.
- 14.4 Application can be made by roller (medium/long nap), brush (long bristle), or on floors with a rubber grouting blade.
- 14.5 The installation and use of reinforcing must comply with the instructions of the Technical Literature.
- 14.6 Clean up may be undertaken with water.

### Tiling

- 15.1 The membrane must be cured fully before tiling. The cured membrane must be protected at all times to prevent mechanical damage, so may require temporary covers until the finishing is completed.
- 15.2 Tiling must be undertaken in accordance with AS 3958.1. The compatibility of the tile adhesive must be confirmed with Fosroc.



## Inspections

- 16.1 Critical areas of inspection are:
- Construction of substrates, including crack control and installation of bond breakers and movement control joints.
  - Moisture content of the substrate prior to the application of the membrane.
  - Acceptance of the substrate by the membrane installer prior to application of the membrane.
  - Installation of the membranes to the manufacturer's instructions, particularly installation to the correct thickness and use of reinforcement.
  - Membranes curing and integrity prior to the installation of trafficable floor finishes including protection from mechanical damage during curing and prior to floor finish installation.

## Health and Safety

- 17.1 Safe use and handling procedures for the membrane are provided in the Technical Literature. The materials must be used in conjunction with the relevant Material Safety Data Sheet.

## Basis of Appraisal

The following is a summary of the technical investigations carried out:

### Tests

- 18.1 The following testing of Nitoproof 410 has been undertaken by BRANZ:
- Testing to AS/NZS 4858, Appendix A including effect of bleach, detergent, and water on tensile and elongation, cyclic movement resistance, and water absorption.
  - Testing to assess durability, water absorption, thermal stability, shear, adhesion, static water head resistance, water vapour transmission and suitability over plywood, plasterboard, concrete and polyurethane. The test results were reviewed by BRANZ experts and found to be satisfactory

### Other Investigations

- 19.1 An assessment of the durability of Nitoproof 410 was made by BRANZ technical experts.
- 19.2 Site inspections have been carried out by BRANZ to assess the practicability of installation and to examine completed installations.
- 19.3 The Technical Literature has been examined by BRANZ and found to be satisfactory.

### Quality

- 20.1 The manufacture of Nitoproof 410 has been examined by BRANZ and found to be satisfactory.
- 20.2 The quality management system of the membrane's manufacturer has been assessed and found to be satisfactory.
- 20.3 The quality of supply to the market is the responsibility of Fosroc.
- 20.4 The quality of installation on-site is the responsibility of the Fosroc trained and approved applicators.
- 20.5 Designers are responsible for the building design, and building contractors are responsible for the quality of installation of the framing and substrates systems in accordance with the instructions of the substrate manufacturer, Fosroc, and this Appraisal.
- 20.6 Building owners are responsible for the maintenance of the trafficable floor finish systems in accordance with the instructions of Fosroc.



## Sources of Information

- AS 3740:2021 Waterproofing of domestic wet areas.
- AS 3958.1:2007 Ceramic tiles - Guide to the installation of ceramic tiles.
- AS/NZS 1170:2002 Structural design actions.
- AS/NZS 2269:2012 Plywood – Structural.
- AS/NZS 2908.2:2000 Cellulose-cement products – Flat sheet.
- AS/NZS 4858:2004 Wet area membranes.
- BRANZ Bulletin 585 - Measuring moisture in timber and concrete.
- NZS 3101:2006 Concrete structures.
- NZS 3602:2003 Timber and wood-based products for use in buildings.
- NZS 3604:2011 Timber-framed buildings.
- NZS 4229:2013 Concrete masonry buildings not requiring specific engineering design.
- NZS 4230:2004 Design of concrete masonry structures.
- Ministry of Business, Innovation and Employment Record of amendments - Acceptable Solutions, Verification Methods and handbooks.
- The Building Regulations 1992.



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23 June 2026

FOSROC NITOPROOF 410  
INTERNAL WATERPROOFING  
MEMBRANE



In the opinion of BRANZ, **Fosroc Nitoproof 410 Internal Waterproofing Membrane** is fit for purpose and will comply with the Building Code to the extent specified in this Appraisal provided it is used, designed, installed and maintained as set out in this Appraisal.

The Appraisal is issued only to **Parchem Construction Supplies Pty Ltd t/a Fosroc**, and is valid until further notice, subject to the Conditions of Appraisal.

### Conditions of Appraisal

1. This Appraisal:
  - a) relates only to the product as described herein;
  - b) must be read, considered and used in full together with the Technical Literature;
  - c) does not address any Legislation, Regulations, Codes or Standards, not specifically named herein;
  - d) is copyright of BRANZ.
2. **Parchem Construction Supplies Pty Ltd t/a Fosroc**:
  - a) continues to have the product reviewed by BRANZ;
  - b) shall notify BRANZ of any changes in product specification or quality assurance measures prior to the product being marketed;
  - c) abides by the BRANZ Appraisals Services Terms and Conditions;
  - d) warrants that the product and the manufacturing process for the product are maintained at or above the standards, levels and quality assessed and found satisfactory by BRANZ pursuant to BRANZ's Appraisal of the product.
3. BRANZ makes no representation or warranty as to:
  - a) the nature of individual examples of, batches of, or individual installations of the product, including methods and quality of work;
  - b) the presence or absence of any patent or similar rights subsisting in the product or any other product;
  - c) any guarantee or warranty offered by **Parchem Construction Supplies Pty Ltd t/a Fosroc**.
4. Any reference in this Appraisal to any other publication shall be read as a reference to the version of the publication specified in this Appraisal.
5. BRANZ provides no certification, guarantee, indemnity or warranty, to **Parchem Construction Supplies Pty Ltd t/a Fosroc** or any third party.

For BRANZ

**Claire Falck**  
Chief Executive  
Date of Issue:  
23 June 2026