

# Nuralite Waterproofing Nuraply TPO Membrane

Product Technical Statement: 111246



Single layer TPO membrane with heat welded seams, produces a smooth clean finish used on roofs/decks

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## Level of assurance needed to demonstrate NZ Building Code Compliance

Supporting documentation should include technical information by manufacturer and either a BRANZ or independent Appraisal or CodeMark



Nuralite Waterproofing confirms that this minimum level of assurance has been met or exceeded by the following:

BRANZ Appraisal

[1177 \(2021\)](#)

Eurofins Tested to: AS/NZS 4020:2005 Date of Issue: 2/12/21 NATA Accredited.

[Nuraply TPO - Report ID: AAS45666](#)



**masterspec partner**

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## Technical Statement

### Product Description

Nuraply TPO Roof and Deck Membrane Systems are single ply, polyester fabric reinforced, thermoplastic polyolefin (TPO) fully bonded waterproofing sheet membranes for roofs and decks.

Nuraply TPO Roof and Deck Membrane Systems are for use as roof and deck waterproofing membranes on buildings within the following scope:

- the scope limitations of NZBC Acceptable Solution E2/AS1, Paragraph 1.1; or,
- the scope limitations of NZBC Acceptable Solution E2/AS1, Paragraph 1.1 with respect to building height and maximum floor plan area when subject to specific structural design; and,
- with building structures designed and constructed to meet the requirements of the NZBC; and,
- with substrates of plywood or suspended concrete slabs; and,
- with minimum falls for roofs of 1:30 and decks of 1:40
- with decks that have a maximum area of 40 m<sup>2</sup>; and,
- situated in NZS 3604 Wind Zones, up to, and including Extra High.

### Scope of use

Nuraply TPO is used as a roof and deck waterproofing membrane on buildings within the following scope:

- the scope limitations of NZBC Acceptable Solution E2/AS1, Paragraph 1.1; or,
- the scope limitations of NZBC Acceptable Solution E2/AS1, Paragraph 1.1 with respect to building height and maximum floor plan area when subject to specific structural design; and,
- with building structures designed and constructed to meet the requirements of the NZBC; and,
- with substrates of plywood or suspended concrete slabs; and, • with minimum falls for roofs of 1:30 and decks of 1:40
- with decks that have a maximum area of 40 m<sup>2</sup>; and ,
- situated in NZS 3604 Wind Zones, up to, and including Extra High.
- potable water collection can be utilised, tested in accordance to AS/NZS 4020

### New Zealand Building Code (NZBC)

The product will, if employed in accordance with the supplier's installation and maintenance requirements, assist with meeting the following provisions of the building code:

- **Clause B2 Durability:** Performance B2.3.1, B2.3.1(b)
- **Clause E1 Surface water:** Performance E1.3.1, E1.3.2, E1.3.3, E1.3.3(a), E1.3.3(b), E1.3.3(c), E1.3.3(d), E1.3.3(e), E1.3.3(f)
- **Clause E2 External moisture:** Performance E2.3.1, E2.3.2, E2.3.6
- **Clause F2 Hazardous building materials:** Performance F2.3.1
- **Clause G12 Water supplies:** Performance G12.3.1, G12.3.2(a), G12.3.2(b), G12.3.2(c)

### Evidence

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The product meets the requirements set out in the following documents, or relevant parts of cited standards within the documents:

- Scope limitations of NZBC Acceptable Solution E2/AS1, Parapet 1.1, OR
- Scope limitations of NZBC Acceptable Solution E2/AS1, Paragraph 1.1 with regards to building height and floor plan area when subject to specific structural design.
- Clause B2 Durability: Performance E2.3.1, E2.3.2 and E2.3.6
- Clause F2 Hazardous Building Materials: Performance F2.3.1

## Supporting Evidence

The product has and can make available the following additional evidence to support the above statements:



BRANZ Appraisal

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## Use in Service History

Nuraply TPO has been specified and installed in New Zealand for 5 years.

## Product Criteria

### Design requirements

For information please visit our [website](#)

Nuraply TPO is intended to be used for as waterproofing membranes for roofs and decks on buildings, as part of a cold roof construction or with Enertherm PIR as a Nuratherm warm roof construction.

Nuraply TPO provides a smooth, light grey surface with minimal lines from lap joints. It is suitable for potable water collection.

Nuraply TPO is typically installed by being fully bonded to the substrate with glue, but can be mechanically fixed to the substrate, enabling the overlay of existing membranes.

Nuraply TPO can be directly laid onto plywood and concrete substrates, but is also to be laid onto Nuralite Enertherm PIR as part of a Nuratherm warm roof.

Typical components that are used in the installation of Nuraply TPO include glues, sealants and electric hot air torches.

Extra optional components to Nuraply TPO are available such as pourable penetration sealant pockets and the Nuralite Fixing plate

### Installation requirements

Our plywood requirements are [here](#)

Our concrete requirements are [here](#)

General requirements for substrate are in our [installation manual](#), this also details how the applicator should install the product, and includes check sheets for project sign of that must be carried out.

### Maintenance requirements

Our maintenance requirements are included towards the end of our [installation manual](#).

Generally, the owner should arrange inspections during spring and autumn the first year (to check the effect of annual extremes).

Following this, an annual programme of inspection and cleaning should be established as part of general building maintenance.

Any inspection of a roof should include the interior of the building for signs of water penetration or condensation and for alterations, which may have affected the roof. Externally, abutting construction, which can affect the performance of the roof, should also be inspected.

To maintain the material defects warranty, every five years the owner must engage an Approved Applicator to inspect the roof and ensure it remains in good condition. Failure to maintain the roof system will void the warranty. The Applicator must thoroughly check the roof for signs of damage, water ingress or potential problems.

## Company Product Information

### Relationships



Member of New Zealand Green Building Council



Toitu Carbon Zero Certification 2020007J

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Date last validated: **06 May 2022**



Date last updated: **06 May 2022**

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