



Queenstown home

NURAPLY 3P SYSTEM Technical Brochure

Description

Nuraply 3P is a tough, reinforced bituminous waterproofing sheet, of great strength, suitable for light foot traffic and finished in any selected colour using Nuracolour coating system.

The membrane is a 3mm thick APP bitumen sheet with a heavy reinforcing layer of non-woven polyester inside. The 10m x 1m rolls of Nuraply 3P are laid by cold gluing with heat welded lap-joints.

Nuraply 3P is custom manufactured for Nuralite by ATAB of Belgium and has been specifically refined for New Zealand conditions. ATAB manufacture over 10 million square meters of membranes per annum.

Nuraply 3P can be installed as a single or double layer system. On most residential projects a single layer is appropriate. With larger commercial work two layers are preferable as there is a high risk of damage to the Nuraply during construction.

The installed Nuraply 3P roof sandy surface is finished with either Nuracolour Gel or Nuracoat BAC (bitumenious aluminium coating), to provide surface protection, heat reduction and an attractive appearance.

When to use Nuraply 3P

Nuraply 3P has been developed for long-term, low maintenance waterproofing of steep or low pitched roofs, decks, gutters, terraces and canopies in new or restoration situations.

The inert dense Nuracolour surface of Nuraply 3P is suitable for the catchment of drinking water.



BRANZ Appraised
Appraisal No.547 [2007]





Keri Keri Community Centre



Auckland Regional Botanical Gardens

Warranty

Nuralite warrants Nuraply 3P against material defects for 20 years from the date of installation. The warranty must be applied for at the completion of the job. For this extended warranty to remain current the customer must maintain the roof and have it inspected every five years by a qualified Nuralite applicator.

The workmanship is covered by a separate workmanship warranty issued by the applicator. Nuralite will inspect the completed job if requested.

Building Code Verification



BRANZ has appraised the Nuraply 3P system and has concluded that it complies with NZBC E2 – weathertightness and B2 – durability.

We are happy to work with you on any building consent issues, especially if something outside the scope of usual work is planned.

Things to consider

The substrate provides the foundation for a successful system. The two most common substrate problems are movement and ponding. To alleviate these ensure when plywood is being used that:

- ▶ The treated plywood substrate is at least 17.5mm thick, supported at 600mm x 600mm for roofs, 20mm thick and supported at 400mm x 400mm for decks. The plywood must be tightly butted and staggered or brick pattern laid. Stainless steel fixings and glue bonding of the plywood must be used.
- ▶ Falls are as much as possible. The BRANZ certificate is for a minimum of 1:40 for roof decks and 1:60 for gutters. Lower falls can be accommodated after consultation with our technical advisors. Pay attention to detailing around scuppers as they often are a source of ponding.

New concrete should be clean and free from defects, cured for a minimum of 28 days, graded to correct falls with a wood float finish incorporating fillets to upstands with all sharp edges removed.

Ventilation is very important to keep the ceiling space cooler, and so limit substrate movement, as well as removing condensation buildup. A Nuravent every 20m² is recommended but attention must be paid to placement relative to rafters to allow for cross flow air movement. Soffit vents can also be useful addition to a flat roof design.

If drinking water is being collected a first flush diverted should be installed to reject possible roof deposits and stagnant or contaminated water.

If the membrane is being tiled over, the preferred method is to keep the membrane accessible by using Nurapads.

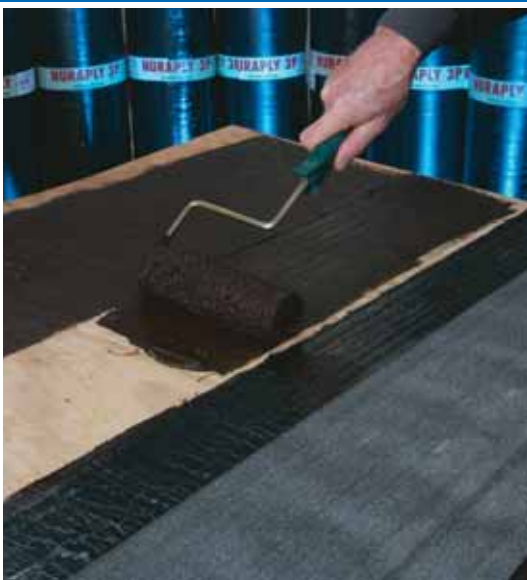
Building maintenance is important. Annual cleans and visual inspections are recommended. Five yearly detailed inspections by a qualified Nuralite applicator is a warranty requirement.

Although Nuracolour is available in any colour, it is recommended that lighter colours are used (RV > 40) to keep the roof system cooler. As with any coating system, new coats will be required during the life of the Nuraply 3P system. Depending on environmental factors and the quality of the roof maintenance programme the coating will need recoating between every 5 and 10 years.

When you should not use Nuraply 3P

Not for concrete or roof decks where excessive moisture or moisture vapour occurs – specify Nuraply 3PV ventilating system to allow moisture to continue to vent.

Not for green roofs or planter boxes – specify the Nuraply 3PG system and related drainage mat to ensure the plant roots will not attack the membrane and that there is proper drainage within the waterproofing system.



A/ Nurabond No. 10 adhesive

B/ Welding lap joints

C/ Nuracolour surface dressing

Not in situations where the Nuraply 3P is likely to be exposed to high foot traffic or may be mechanically or chemically damaged. In these cases ensure the Nuraply 3P is completely protected by overlaying of pavers or similar.

Accessories

Nuratrim – a smart way to provide a sharp edge finish where the membrane must lap over the roof edge. Detailed to ensure watertightness. Available in mill finish aluminium, powdercoated or painted.

Nurapads – designed so that the client can have tiles or pavers, but the membrane is still accessible, Nurapads come in a range of sizes to enable tiles to be floating just above the deck or raised up to the level of the building interior if desired.

Nuravents – low profile vents are unobtrusive but have a large capacity for air circulation.

See separate Nuralite Accessories brochures for a detailed discussion of these products.

Drains & Scuppers – Nuralite recommends Allproof products for this purpose. Their complete range is stocked at Nuralite and is available to all Nuralite applicators.

General Application Method – Single layer system

1. Nurabond No. 10 cold adhesive is applied to the substrate. This ensures the membrane will be fully bonded to the substrate. **(Picture A)**
2. The base of the Nuraply 3P sheet is lightly heated to melt the protective film – but not the sheet itself. This ensures the Nuraply 3P is completely undamaged when it is laid.
3. The membrane is laid up the slope of the roof to allow for the best drainage flow towards the gutter.

4. The Nuraply 3P lap joints are welded as a separate process. As this step is vital, a three pass method is used so that the quality of the weld is checked during the process. **(Picture B)**
5. A layer of Nurastone primer is applied before applying two coats of Nuracolour. Alternatively, two coats of Nuracoat BAC is applied. **(Picture C)**

General Application Method – Double layer system

1. Nurabasesheet is adhered to the substrate with Nurabond No. 10 using the method described in steps 1-4 above. Step 5 is not performed.
2. The Nuraply 3P capsheet is offset from the runs of Nurabasesheet and is then fully heat welded to the Nurabasesheet.
3. All lap joints are welded as a separate process. As this step is vital, a three pass method is used so that the quality of the weld is checked during the process.
4. A layer of Nurastone primer is applied before applying two coats of Nuracolour. Alternatively, two coats of Nuracoat BAC is applied. **(Picture C)**

Applicators

All Nuralite authorized applicators have been trained in Nuralite's system followed by on-site monitoring. Most Nuralite applicators have been working with Nuralite systems for many years.

We work closely with applicators to ensure quality standards are maintained.

If clients require an independent quality check during the course of a job or at completion, please contact a Nuralite technical advisor and a site report will be provided.

Technical Information

A comprehensive set of design details and specifications are available at www.nuralite.co.nz

Nuralite technical advisors are all very experienced and willing to help either on the phone, in your office or on site. Call **09 579 2046** or **04 385 9326**.

Description – Nuraply 3P

A waterproofing membrane consisting of straight run bitumen heavily modified with polymers (APP = Atactic Polypropylene) and reinforced with non-woven polyester.

Finishing

- ▶ Top surface finished with white calibrated sand, then coated in situ with either Nuracoat BAC in reflective silver or Nuracolour Gel in any colour.
- ▶ Underside finished with a smooth thermofusible film

Composition

- ▶ Reinforcement: non-woven polyester 180 g/m²
- ▶ Coating mass: plastomer bitumen, consisting of ±70 % bitumen and ±30% atactic polypropylene (APP) modifier

Technical specifications (average values)

	Nuraply 3P	NuraBasesheet
▶ Tensile strength (U.E.A.t.c.):	L: 700 N T: 600 N	L: 650 N T: 500 N
▶ Elongation at break (U.E.A.t.c.):	L: 45% D: 45%	L: 45% D: 45%

Dimensions

▶ Thickness:	3 mm	3 mm
▶ Length:	10 m	10 m
▶ Width:	1 m	1 m
▶ Surface:	10 m ²	10 m ²
▶ Average weight:	37.1 kg	36 kg

Nuraply 3P, No.10 and Nuracolour are non-hazardous products.

Nuraflux, Nuracoat BAC and Nurastone sealer are Class III Dangerous Goods and are flammable. Care is required in use.

To the best of our knowledge, the information in this brochure is accurate at the time of printing.

Nuralite Waterproofing Ltd reserves the right to alter information, formulation or parameters at any time without notice.

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