



BRANZ Appraised

Appraisal No. 864 [2025]

VIKING POST-APPLIED TANKING MEMBRANES

Appraisal No. 864 [2025]

This Appraisal replaces BRANZ Appraisal No. 864 [2019]

Amended 17 June 2026



BRANZ Appraisals

Technical Assessments of products for building and construction.



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Product

- 1.1 Viking Post-Applied Tanking Membranes are available as either torch-applied or self-adhered bituminous membranes for basement retaining walls and floors where subsoil drainage is provided.
- 1.2 Viking Underslab membranes, installed as pre-applied membranes beneath concrete floor slabs, form a supplementary component to the system, providing continuity of waterproofing at the floor and wall interface with Viking Post-Applied Tanking Membranes.

Scope

- 2.1 Viking Post-Applied Tanking Membranes have been appraised as post-applied membranes for use:
 - on buildings subject to non-specific design under floor slabs complying with NZS 3604 and behind concrete masonry basement walls and under floor slabs complying with NZS 4229; and,
 - on buildings subject to specific design with substrates of insitu or precast concrete complying with NZS 3101 or concrete masonry complying with NZS 4230; and,
 - where subsoil drainage and free draining granular backfill has been placed behind basement walls.
- 2.2 Viking Post-Applied Tanking Membranes must be adequately protected against damage during backfilling and in service.
- 2.3 The membranes must be installed by Viking Roofspec Ltd approved installers.

Building Regulations

New Zealand Building Code (NZBC)

- 3.1 In the opinion of BRANZ, Viking Post-Applied Tanking Membranes, 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 [a] not less than 50 years. Viking Post-Applied Tanking Membranes meet this requirement. See Paragraph 10.1.

Clause E2 EXTERNAL MOISTURE: Performance E2.3.3. Viking Post-Applied Tanking Membranes meet this requirement. See Paragraphs 12.1-12.3.

Clause F2 HAZARDOUS BUILDING MATERIALS: Performance F2.3.1. Viking Post-Applied Tanking Membranes meet this requirement.

Technical Specification

4.1 Materials supplied by Viking Roofspec Ltd are as follows:

- **Viking GM Mercury FC Tanking Membrane** – is an SBS modified bitumen torch-on membrane for use as a below ground post-applied tanking membrane. It is supplied in a roll 4 mm thick x 1 m wide x 10 m long.
- **Viking Peel & Stick Membrane** – is an SBS modified bitumen self-adhesive sheet membrane consisting of rubberised asphalt laminated to polyethylene. The membrane is 1.5 mm thick and supplied in rolls 0.914 m wide x 20.4 m long.
- **Tanking Primer** – is a fast drying, solvent-based contact adhesive. It is supplied in 5 US gallon pails.
- **Tanking Primer WB** – is a fast drying, water-based contact adhesive. It is supplied in 5 US gallon pails.
- **Viking FleeceTank Underslab Membrane** – is a SBS modified bitumen membrane with a with a self-adhering lap and a factory-applied fleece on its top side. It is supplied in a roll 1.05 m wide x 10 m long with a total thickness of 8 mm including the fleece.
- **Viking GM Mercury FC Underslab Membrane** – is a SBS modified bitumen torch-on membrane with a ceramic chip finish. It is supplied in a roll 4 mm thick x 1 m wide x 10 m long.

Handling and Storage

5.1 Handling and storage of all materials, whether on-site or off-site, is under the control of the installer. Dry storage must be provided for all products and the membranes must be protected from sunlight and ultraviolet [UV] radiation. Rolls of membrane must be stored on end.

Technical Literature

6.1 This Appraisal must be read in conjunction with:

- Viking Below Ground Tanking - Torch-On Viking Roofspec Details Schedule, dated 01 March 2022.
- Viking Tanking - Peel & Stick Viking Roofspec Details Schedule, dated 01 March 2022.
- Viking Mercury FC Tanking PDS, version TM-PDS-001, dated July 2023.
- Viking Mercury FC Tanking PTS, version VMFC-PTS-V1 dated July 2023.
- Viking Peel & Stick Tanking PDS, version TP-PDS-1.1, dated December 2025.
- Viking Peel & Stick Tanking PTS, version VTS-PTS-V1.1 dated September 2025.

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 Viking Post-Applied Tanking Membranes are applied to the exterior face of basement retaining walls, and on site concrete under slab-on ground, to prevent water vapour penetrating to the interior face in spaces where moisture may cause damage.

Substrate Design

Retaining Wall

8.1 Substrate design must be in accordance with the NZBC to a relevant standard, such as NZS 3101 for concrete, and NZS 4229 or NZS 4230 for concrete masonry.

Concrete Slab-on-ground

8.2 Viking Post-Applied Tanking Membranes may be used in conjunction with the Viking GM Mercury FC Underslab Membrane or the Viking FleeceTank Underslab Membrane. For slab-on-ground applications, the under-slab Membranes must be laid on at least 50 mm of site concrete or 40 mm of compacted sand or fines, as appropriate to the site conditions. The structural concrete slab placed over the membrane must be at least 100 mm thick.

General

- 8.3 The substrate must have a surface finish that is smooth, clean and free from defects or irregularities which may damage the membrane or allow water to be trapped behind the membrane.

Control Joints

- 9.1 Where control or construction joints are formed in the substrate, Viking Post-Applied Tanking Membranes must be detailed in accordance with the Technical Literature.

Backfilling and Drainage

- 10.1 The post-applied membranes must be protected against damage and UV by the placement of a protection material between the membrane and the granular fill.
- 10.2 The minimum requirement for backfilling is that a granular, free-draining material is used with the top of the backfill capped with an impermeable layer [i.e. clay fill] that may be covered with topsoil if required. The capping layer and any overlying topsoil must slope with a minimum of 1:30 fall away from the wall.
- 10.3 A subsoil drainage system must be used which includes a minimum of a 100 mm diameter pipe with openings to collect water, a geotextile filter fabric or other filter material to prevent silting of the pipe, an access for cleaning the subsoil pipe, be a minimum of 200 mm below the floor level and have a minimum 1:200 fall to drainage outlet.
- 10.4 After backfilling, the membrane installation must be completed in accordance with Paragraph 15.4 and the details contained within the Technical Literature.

Durability

Serviceable Life

- 11.1 Viking Post-Applied Tanking Membranes are a suitable post-applied tanking membrane material [modified bituminous sheet], and is expected to have a serviceable life of at least 50 years, provided it is installed and maintained in accordance with this Appraisal and is continually protected from sunlight and UV radiation.

Maintenance

- 12.1 Annual inspections must be made of the membrane's top edge seal and protection, the backfill capping, and the drainage pipe to ensure all are functioning as originally designed.
- 12.2 If required, the drainage pipe must be cleared to remove any sediment or silt build-up. The slope of the backfill capping must be maintained at all times.

External Moisture

- 13.1 Viking Post-Applied Tanking Membranes, when installed in accordance with this Appraisal and the Technical Literature, will prevent water vapour from penetrating to the interior face of basement retaining walls and floors in spaces where moisture may cause damage.
- 13.2 The top edge of the membrane must be finished to the wall as set out in the Technical Literature and protected.
- 13.3 Building designers must ensure junctions with other membranes, such as at the floor/wall junction, form a waterproof joint. These junctions have not been assessed and are outside the scope of this Appraisal.

Installation Information

Installation Skill Level Requirement

- 14.1 Installation of the membrane must be completed by trained applicators, approved by Viking Roofspec Ltd.
- 14.2 Installation of substrates must always be carried out in accordance with the Technical Literature and this Appraisal by, or under the supervision of, a Licensed Building Practitioner [LBP] with the relevant Licence Class.

System Installation

Substrate Preparation

- 15.1 All surfaces must be checked to ensure they are dry, clean, smooth and free from sharp edges, loose or foreign materials, oil, grease or other deleterious material that may affect adhesion or may damage the membranes.

Priming

- 15.2 All wall substrates must be primed before application of the membrane. Viking Roofspec technical data sheets must be referred to for the system specific primer. Contact Viking Roofspec Ltd for additional advice.

Wall Installation

- 15.3 Wall membranes must be installed in accordance with the Technical Literature. Internal and external corners must be reinforced with an additional 300 mm wide layer of membrane. Protection material must be installed before backfilling. Backfilling must commence as soon as practicable following membrane installation to ensure the membrane is not left exposed to sunlight or UV radiation for periods exceeding 30 days. Backfilling operations must be coordinated with the membrane installer.
- 15.4 The membrane must be terminated in accordance with the Technical Literature. Any exposed membrane above ground level must be protected from UV as specified in the Technical Literature.
- 15.5 Viking Peel & Stick Membrane installations must begin from the lowest point.

Under-slab Installation

- 15.6 Viking Underslab membranes must be loose-laid and installed in accordance with the Technical Literature, including lap formation. The membrane must be inspected for damage, and any damage repaired in accordance with the Technical Literature. The membrane must not be exposed to UV radiation for any longer than 14 days before the structural concrete is placed.

Inspections

- 15.7 The Technical Literature and the installation company's Quality Control sheets must be referred to during the inspection of the membrane installation.

Health and Safety

- 16.1 Safe use and handling procedures for the membranes are provided in the Technical Literature.

Basis of Appraisal

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

Tests

- 17.1 The following testing of Viking GM Mercury FC Tanking Membrane has been undertaken by various organisation for elongation, tear resistance (nail shank), low temperature pliability, water vapour transmission, watertightness, dimensional stability, flow resistance at elevated temperature before and after aging, resistance to impact, resistance to static load, tensile strength, shear resistance and watertightness after aging and chemicals.
- 17.2 The following testing of Viking Peel & Stick Membrane has been undertaken by various organisations for thickness, elongation, puncture resistance, low temperature pliability, water absorption, vapour permeability, adhesion to concrete with and without primer, tensile strength, shear strength, crack bridging, resistance to fungi and hydrostatic pressure resistance.
- 17.3 Test methods and results have been reviewed by BRANZ and found to be satisfactory.

Other Investigations

- 18.1 A durability opinion has been given by BRANZ technical experts.
- 18.2 Practicability of installation has been assessed by BRANZ and found to be satisfactory.
- 18.3 The Technical Literature has been examined by BRANZ and found to be satisfactory.



Quality

- 19.1 The manufacture of the membrane and primers has not been examined by BRANZ, but details regarding the quality and composition of the materials used were obtained by BRANZ and found to be satisfactory. BRANZ has taken note of the product certification covering quality aspects associated with the product.
- 19.2 The quality of materials supplied to the market is the responsibility of Viking Roofspec Ltd.
- 19.3 Quality of installation on-site is the responsibility of the Viking Roofspec Ltd approved installer.
- 19.4 Designers are responsible for the building design, and building contractors are responsible for the quality of construction of substrate systems in accordance with the instructions of Viking Roofspec Ltd.
- 19.5 Building owners are responsible for the maintenance of the membrane system in accordance with the instructions of Viking Roofspec Ltd.

Sources of Information

- NZS 3101:2006 Concrete structures standard.
- NZS 3604:2011 Timber-framed buildings.
- NZS 4229:2013 Concrete masonry buildings not requiring specific engineering design.
- NZS 4230:2004 Design of reinforced concrete masonry structures.
- Ministry of Business, Innovation and Employment Record of amendments - Acceptable Solutions, Verification Methods and handbooks.
- The Building Regulations 1992.

Amendments

Amendment No.1, dated 17 June 2026

This Appraisal has been amended to include the Viking Peel & Stick Membrane and Viking FleeceTank Underslab Membrane.



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18 June 2025

VIKING POST-APPLIED TANKING
MEMBRANES



In the opinion of BRANZ, **Viking Post-Applied Tanking Membranes** are fit for purpose and will comply with the Building Code to the extent specified in this Appraisal provided they are used, designed, installed and maintained as set out in this Appraisal.

The Appraisal is issued only to **Viking Roofspec Ltd**, 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. **Viking Roofspec Ltd**:
 - 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 **Viking Roofspec Ltd**.
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 **Viking Roofspec Ltd** or any third party.

For BRANZ

Claire Falck
Chief Executive
Date of Issue:
18 June 2025