

# Viking Dec-K-ing

Version: DK-PTS-V1

## Product description

Dec-K-ing is a single-ply, trafficable, waterproofing PVC sheet membrane system for deck surfaces (suitable for decks above living areas). It is an aesthetic, all-inclusive finished waterproofing solution. The sheets are heat-welded with 25mm lapped seams. Dec-K-ing has an embossed, slip-resistant surface that provides underfoot comfort, and due to a lighter colour palette, aids in reflecting more of the heat away from the deck structure, when compared to some other waterproofing membranes. Dec-K-ing does not need to be overlaid with another deck surface as most other deck waterproofing membrane systems do.

The embossed surface provides a trafficable surface, while the polyester-reinforcing mesh scrim inherent throughout the membrane, provides great puncture resistance. Added durability comes from Dec-K-ing's strong UV resistance and directional stability: changes in temperature can cause deck substrates (especially plywood) to contract and expand. This has caused splitting and leaking in some waterproofing membranes particularly with some liquid membranes reinforced with fibreglass. Dec-K-ing's flexibility, reinforcing mesh scrim and heat-weldable technology avoids this.

## Purpose and use

Viking Dec-K-ing PVC Waterproofing Membrane has been appraised for use as a waterproofing membrane for buildings within the following scope:

- on pedestrian decks and balconies; and,
- scope limitations of NZBC Acceptable Solution E2/AS1, Paragraph 1.1; and,
- with timber supporting structures designed and constructed in accordance with the NZBC; and,
- with substrates of plywood sheet and compressed fibre cement sheet; and,

Viking Dec-K-ing PVC Waterproofing Membrane has also been appraised for external reinforced concrete pedestrian decks and balconies, for buildings within the following scope:

- Up to 3 storeys with a maximum height from ground to eaves of 10 m and with a floor plan area limited only by seismic and structural control joints.
- With the reinforced concrete structure designed and constructed in accordance with the NZBC.

## Conditions

Substrate preparations are far more stringent than any other membrane systems. This is due to the required finish and aesthetics demanded by homeowners.

This level of finishing often requires other trades to vacate adjoining areas to ensure no debris will carry onto the deck area.

Weather conditions must be dry or the areas where Dec-K-ing is installed must be tented.

Dec-K-ing adhesives have a very strong odour. Air movement and ventilation is crucial. If the ventilation is not adequate, charcoal filtered masks must be worn.

## Compliance with the New Zealand Building Code

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(b) 15 years
- Clause E2 External moisture: Performance E2.3.1, E2.3.2
- Clause F2 Hazardous building materials: Performance 2.3.1

### **Design, construction, and installation instructions**

Product specification and incorporation of the Viking Dec-K-ing PVC Waterproofing Membrane into the building design shall be carried out by a designer/architect/engineer or building professional who:

- Is qualified to design the buildings covered under the 'Scope' of use of this product.
- Has ready access to the technical specifications including installation details and standards referenced in the current BRANZ Appraisal No. 411 where the design limitations are outlined for the scope of this PTS.
- It is the responsibility of the specifier to design supporting structures within the limitations required of the NZBC. Dec-K-ing as a waterproofing membrane is not limited to size of area for use. Viking Roofspec have a specific Dec-K-ing Plywood Substrate Checklist created to minimise the chance of substrate movement between sheets. There may be requirements within the substrate design to allow for structural movement.

Note: Movement of the structural framing and / or plywood substrate, caused by various factors, can produce a membrane wrinkle at the movement points. This is known as 'tenting'. The Dec-K-ing substrate specification has been written to prevent substrate movement, however on rare occasions tenting has still occurred due to certain seasonal conditions. The performance and long-term durability of the Dec-K-ing membrane will not be adversely affected if tenting occurs.

Dec-K-ing is a system that works in conjunction with its matching proprietary accessories including internal and external corner flashings, door transits, clamped drains and overflows, scupper outlet, fastening bars and PVC weldable flashing material. Refer to Dec-k-ing Installation Guide or PDS

### **Maintenance requirements.**

The membrane roof system must be regularly checked (twice annually) for damage, rubbish, and debris particularly around drainage points. Damage, such as small punctures and tears must be repaired as recommended by Viking Roofspec Ltd. Special care must be taken when inspecting the membrane roof systems to ensure the continuing prevention of moisture ingress. Repairs must be undertaken when required. Drainage outlets must be maintained to operate effectively.

- In the event of damage to the membrane, the membrane must be repaired by removing the damaged portion and applying second layer over it. a test weld must be performed before commencing work, if the membrane is old and lost its weldability a full replacement should be considered.
- Drainage outlets must be maintained / cleaned to operate effectively.
- Long term properties of the material may be affected by contact with petroleum-based products such as bitumen-based membranes, oils, grease, and solvents.
- A Membrane Care and Maintenance Guide is available from the Viking Roofspec website.
- Viking recommend use of Dec-K-ing Cleaner SDM185. One Litre concentrate bottle supplied by Viking Roofspec.
- All repairs and work carried out will be done by a Viking Approved Applicator

### **Quality assurance**

Viking provides quality assurance documents that we recommend the installer and builders follow and sign off at the conclusion of the project. These can be obtained from Viking Managers or from the Viking web site.

- Dec-K-ing BRANZ Appraisal 411
- MASTERSPEC Dec-K-ing 4432v
- Dec-K-ing Details
- Dec-K-ing PTS
- Dec-K-ing PDS
- Substrate Checklists

July 2023

## PRODUCT TECHNICAL STATEMENT



### Warranty information

Dec-K-ing is backed by Vikings 20-year product warranty with the Certificate of Workmanship provided by Viking Approved Applicator companies. Viking Roofspec only supply Viking Dec-K-ing to our Approved Applicator network of Viking Licensed Installers.

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