

Viking Grace Select Underlayment

Viking Roofspec Supplier Code: DDE055A

Version: 1.0

Introduction

Grace Select™ roofing underlayment is composed of two waterproofing materials: a rubberized asphalt adhesive, backed by a layer of high density cross laminated polyethylene film. Underlayment is a self-adhered membrane designed for superior waterproofing performance in steep-slope roofing applications.

At 0.64 mm thick, the membrane is lightweight and easy to handle, and it delivers adhesion that meets industry standards.

A removable paper release liner protects the adhesive until installation. Once removed, the membrane bonds directly to the roof deck, forming a watertight seal.

Each roll covers 18.1m² and is 914mm wide. For added convenience, the product includes Ripcord® technology—a built-in split-release feature that allows installers to peel back the liner in sections. This makes it easier to apply in detailed areas like valleys, eaves, and around penetrations.

Properties

Product Data

Attribute	Value
Roll length	19.8m
Roll width	914mm
Roll size	18.m ²
Packaging	Corrugated cartons
Roll weight	14.5kg
Rolls per pallet	25

Performance Properties

Property	Value	Test Method
Colour	Grey / Black	
Thickness, membrane	0.64mm	ASTM D3767 method A
Tensile strength, membrane	1720kN/m ²	ASTM D412 (Die C modified)
Elongation, membrane	250%	ASTM D412 (Die C modified)
Adhesion to plywood	525N/m	ASTM D903
Permeance (max)	0.05 Perms	ASTM E96
Material weight installed (m	0.7kg/m ²	ASTM D461

Features and Benefits

Lightweight: The 18.1m² roll weighs only a fraction of what competitive materials weigh making transport and handling easier.

Self-sealing: The membrane meets key building code standards for nail self-sealing for self-adhered roofing underlayment's.

Easy to handle and apply: The membrane is easy to reposition, easy to install, bonds to the roof deck and forms high quality laps.

Slip resistant surface: The slip resistant surface maximizes traction for safety without compromising the water integrity of the laps. The surface film is resistant to scuffing and tracking oil in hot weather.

Re-roofable: Unlike granular surfaced membranes, Grace Select™ membrane will not adhere to the underside of the exposed roof covering making reroofing easier and less costly.

Guidelines for Use

Grace Select™ is a high-performance roofing underlayment engineered for use on sloped roofs. It is specifically designed to resist water infiltration caused by wind-driven rain and ice dams, and it complies with applicable building code performance standards.

Wind-Driven Rain

While sloped roofs are effective at shedding rainwater, they are not inherently waterproof. During severe weather events, wind can lift roof coverings, allowing rain to penetrate beneath and reach the roof deck, potentially causing interior damage. When installed beneath the roof covering, Grace Select™ serves as a critical barrier against such water intrusion.

Recommendation

For optimal protection against wind-driven rain, full coverage of the roof deck with Grace Select™ is advised. As the membrane functions as a vapor barrier, it is essential that the roof assembly includes adequate ventilation.

Ice Dams

For ice dam protection, Grace Select™ underlayment should be adhered at the edge of the roof deck along the eaves. The product should be applied to a point on the roof deck above the highest expected ice-dam. Several variables influence the height of ice-dams and the membrane coverage required. Many variables influence the height of ice dams including climate (particularly the annual snowfall), slope, overhang, valleys, how well the structure is insulated and ventilated, and exposure (sun vs. shade).

Additional Applications

The membrane may also be applied in vulnerable areas such as valleys, rake edges, and around roof penetrations including chimneys and skylights. In regions prone to severe ice damming, a double layer of membrane is recommended.

Installation

Surface Preparation

Grace Select™ must be installed on a clean, dry, and continuous structural deck. Acceptable substrates include plywood, wood plank, wood composition, metal, concrete, and gypsum sheathing. Prior to installation:

- Remove all dust, debris, protrusions, and old roofing materials.
- Ensure the deck is free of voids, damage, or unsupported areas.
- Substrates shall be installed in accordance with Viking Pitched roof Substrate Checklists.
- Repair any defects before proceeding.

Priming Requirements

- Surfaces for priming shall be done with Viking Vapor barrier Primer.
- Primer applications for concrete and masonry are mandatory.
- Plywood or Strand sarking substrates if adhesion is suboptimal due to low temperatures or high wind exposure.
- Apply primer at a rate of 6–8m²/L.
- Priming is not required for other clean, dry, and compatible surfaces.

Membrane Installation Guidelines

Weather Conditions

Install Grace Select™ membrane only during fair weather when the air, roof deck, and membrane temperatures are at or above 5°C. Roofing materials should also be applied at these temperatures or higher. When applying in high wind zones, priming the substrate will make installation and adhesion easier. See Viking's "Pitched Roofing Tips and Tricks for Cold Weather installs", to help you navigate adverse weather conditions.

Standard Installation Method

1. Preparation:
 - Cut the membrane into lengths of 3–5 m.
 - Loosely re-roll each section.
2. Application:
 - Peel back 300–600 mm of the release liner.
 - Align the membrane and continue peeling the liner while pressing the membrane into place using firm hand pressure.
 - Ensure side-laps are at least 90mm and end laps are at least 150mm.
3. Valleys and Ridges:
 - Center the membrane over the valley or ridge.
 - Lay and press it into place, working outward from the center and upward from the lowest point.

Alternative Installation Method (Full Roll Technique)

1. Initial Setup:
 - Unroll 1–2 m of membrane with the release liner still attached.
 - Align the membrane in the direction of application.
2. Liner Removal:
 - Carefully cut the release liner across the roll without damaging the membrane.
 - Peel back approximately 150 mm of liner to expose the adhesive.
3. Application:
 - Hold the release liner with one hand and pull the roll along the deck, leaving the membrane behind.
 - Use the other hand to apply pressure on top of the roll.
 - Pause frequently to press the membrane firmly into place.
4. Final Steps:
 - After the roll is applied, return to the starting point.
 - Re-roll and remove the remaining release liner to complete the installation.

General Best Practices

- Always install the membrane so that all laps shed water.
- Work from the lowest to the highest point of the roof.
- Apply membrane Vertically in valleys before installing it horizontally along the eaves.
- Continue application up the roof after eaves are covered.

Fastening and Nail Guidelines

- Grace Select is designed to be self-adhered, but in certain situations, like steep slopes or when working in extreme temperatures, nailing may be necessary.
- Hand nailing is preferred for better sealing.
- If nailing is required, consider using min 20mm galvanized nails with a 7mm head and with 25mm plastic washer or using Little Gripper nails.

Additional Protection Measures

- Extend membrane above the highest expected ice dam water backup and snow/ice levels on vertical walls (e.g., dormers).
- Consider double layers in critical areas like eaves and valleys, especially in regions prone to severe ice dams.
- For wind-driven rain protection, apply membrane over the entire roof deck.
- In retrofit applications, a new layer of Grace Select™ can be applied directly over existing Grace Select™ self-adhered underlayment, following standard procedures.

Precautions

- Ensure surfaces are dry and free of frost to maintain safe footing.
- For your safety, always use fall protection when working on a roof deck, in line with best roofing practices.
- Remove release liners promptly after membrane application to keep the work area safe and clear.
- For optimal performance, limit membrane exposure to sunlight to a maximum of 30 days.
- Install metal drip edges or starter shingles over the membrane for proper water management.
- When folding over roof edges, ensure they are protected with a drip edge, gutter, or flashing material.
- Install only on flat, supported surfaces—avoid chamfered edges of wood planks.
- Confirm compatibility before installing over existing roof coverings.
- Use appropriate roof insulation and ventilation to help prevent ice dams and reduce condensation. Grace Select™ also functions as an air and vapor barrier.
- Promptly repair any holes, fish mouths, or tears using a round patch that extends 150 mm beyond the damaged area. Patch any fastener holes to maintain membrane integrity.
- Place fasteners only over supported areas of the structural deck, avoiding joints between panels.
- Apply the membrane only in areas separated from interior living spaces, as it may emit a slight asphaltic odor.
- For detailed guidance and specifications, please refer to the full product literature.
- This product is best suited for non-alpine climates.
- Avoid use with polysulfides or flexible PVC to ensure material compatibility.

Standards and Compliance

Grace Select meets the following standards:

- ICC ESR-1677 approval according to AC-48 Acceptance Criteria for Self-Adhered Underlayment to be used as an Ice Barrier
- Underwriters Laboratories Inc. Class A fire classification under fiber-glass shingles and Class C under organic felt shingles (per ASTM E108/UL 790)3

Storage

Handling and storage of all materials whether on or off site is under the control of the Viking Roofspec Licensed and Trained Installers. Dry storage must be provided for all products, do not let products get crushed under weight of stacking pallets on top of each other.

The air, roof deck, and membrane temperatures are at or above 5°C. When working in cold conditions, storing in a warm warehouse overnight will make installation easier.

Notes

Auckland office

80 Alexander Crescent,
Otara PO Box 14-541,
Panmure, Auckland
1741, New Zealand

Christchurch office

2 Nazareth Avenue,
Middleton, PO Box
9117, Tower Junction
Christchurch 8149,
New Zealand

Wellington office

19 Pretoria St,
Lower Hutt 5010,
New Zealand

T: 0800 729 799
F: 0800 729 788

info@vikingroofspec.co.nz
www.vikingroofspec.co.nz

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