

Viking Halley-P (No Flame System)

Version: HP-PDS-V1.0

Introduction

This Data Sheet is to serve as a reference guide for Viking Roofspec Licensed Installers who are familiar with Viking Roofspecs systems and are responsible for Viking roof-system installations. The following guide contains precautions, best uses and application procedures for the correct installation of Halley-P No Flame System.

Different to traditional full flame applied two-layer bituminous systems, HALLEY-P is a cold applied self-adhesive bituminous membrane system made with two types of compounds. The upper surface compound is an APP (Atactic Polypropylene) elasoplastic modified bitumen compound. The lower surface and seldge compound is an elastomeric modified bitumen, with a pressure sensitive adhesive compound.

With temperature range flexibility and adhesive compatibility to a wide range of substrates Halley-P allows easy adaptability during installation. The membrane system able to perform in climatic conditions as low as -20°C.

HALLEY-P is reinforced with a rot-proof, non-woven, spun-bond polyester fabric stabilized with fiberglass. These "composite" reinforcements combine the mechanical properties of polyester reinforcements with the thermo-dimensional stability typical of glass-fiber and guarantee high levels of performance to the membranes.

The two-layers consist of a 3mm thick Base-sheet, which is self-adhered to a primed substrate, and a 4mm thick Black or Grey coloured ceramic-chip cap-sheet. The cap-sheet is self-adhered to the base sheet. The cap-sheet protects the roof system from ozone and UV degradation.

Properties

Properties	Base sheet	Cap sheet
Roll Size (Width x Length)	1.0m x 10.0m	1.0m x 8.0m
Thickness	3mm	4mm
Weight per roll	35kg	50kg
Coverage	m ²	7.34m ²
Colour	Black	Black or Grey
Serviceable temperature range	+100°C to -20°C	+100°C to -20°C
Primer	Solvent Primer	Easy Paste
Drum Size	20L	20L or 10L
Coverage	4.0m ² per litre	1.5m ² per litre

Approved Substrates

- Plywood – refer to the plywood substrate checklist
- Concrete – refer to the concrete substrate checklist
- StrandSarking – refer to the StrandSarking substrate checklist
- Polyiso and Warm Roofs – refer to the project specification

Installation

Surface Preparation:

- Concrete must have a minimum of 28 days cure, and no more than 75% relative humidity. The surface shall have a smooth finish and be free of voids, spalled areas, sharp protrusions, loose aggregate, and free form release agents. In the event of rain, concrete must be allowed to dry before primer is applied.
- Plywood to meet minimum requirements set out in the Viking Plywood Substrate checklist and no more than 18% moisture content.

Membrane Installation:

1. Primer: Surfaces to receive Halley-P must be clean and dry. Prime with Solvent based primer (SES299) or Easy Paste (SES302) Primer. Apply primer by brush or with a long-nap roller at the applicable coverage rates. Primer is satisfactorily cured when it will not transfer when touched. Re-prime if area becomes dirty.
2. Application: Apply Base sheet (SEM712) from low to high point in a shingle fashion so that laps will shed water. Overlap all edges by 80mm min.
3. Remove plastic surface film on edges with hot air (or small flame if allowable) End laps shall be staggered. Seams and end laps must be rolled with a pressure seam roller. Place membrane carefully, remove the wax lined film and with a soft broom the membrane to avoid wrinkles. Immediately after installation, roll with a 70-kg weighted steel roller.
4. **NOTE: To aid with the bonding process at side and head laps, heat applied by either, hot air welder or small flame may be required. This will aid with lap and detailing work where additional warmth improves membrane flexibility and effectiveness of the pressure sensitive adhesive.**
5. Once the first layer has been completed and water tested, the second layer can be installed.
6. If there has been an extended period between installing the base layer and the cap sheet, then ensure the base layer is clean and dry.
7. The laps of the cap sheet must be offset to the laps of the base sheet by approximately 50% or 450mm.
8. Remove the wax backing film from the Cap sheets so that the underside is fully bonded to the base sheet.
9. After each roll is laid. check the lap joints ensuring it is adhered to the next roll.
10. As noted above, hot air or small flame can be used to assist with the completion of laps and detailing.

Precautions

- Store modified bitumen sheets in a cool, dry, and well-ventilated area, away from direct sunlight and heat sources. Store at minimum +5°C
- Avoid stacking rolls excessively to prevent deformation or damage to the sheets.
- Inspect the substrate for any irregularities, moisture or debris before installation.
- Ensure the substrate is clean, dry, and free from any loose materials, oil, grease, or other contaminants that may hinder proper adhesion.
- Wear appropriate personal protective equipment (PPE), such as gloves and safety goggles when handling and installing modified bitumen sheets.
- Work in well-ventilated areas or use respiratory protection when working with bitumen products to avoid inhalation of fumes.
- Ensure that the modified bitumen sheets are compatible with the specific substrate and any adhesives or primers used during installation.
- Avoid direct contact between modified bitumen sheets and incompatible materials that may lead to chemical reactions or degradation of the sheets.
- Protect the installed modified bitumen sheets from foot traffic, sharp objects, and construction debris that may puncture or damage the waterproofing layer.
- Consider installing a protective layer, such as insulation or a protection board above the modified bitumen sheets to safeguard them during subsequent construction phases.
- Regularly inspect the modified bitumen sheets for signs of damage, deterioration or wear over time.

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- Perform necessary maintenance and repairs promptly to extend the service life of the waterproofing system.

Storage

Handling and storage of all materials whether on or off site is under the control of the Viking Roofs spec Applicators and Licenced Installers. Material must be stored in a covered place.

Storage of materials is not to exceed 12 months. All rolls must be stored vertically on pallets or on flat a surface. Protect the membrane from extremely low temperatures. Acclimatise the material before its installation, leaving it at least 24 hours inside at +5°C.

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