

Neuchâtel Permatec LI Hot Melt Monolithic Waterproofing



TECHNICAL
DATA SHEET (TDS)

FEBRUARY 2024

TECHNICAL DATA SHEET

NEUCHÂTEL PERMATEC LI HOT MELT MONOLITHIC WATERPROOFING

Product Information

Permaterc LI Hot Melt Monolithic Waterproofing Systems comprise of Permaterc LI and Permaterc Anti-Root LI hot melt waterproofing compounds, which are specially formulated combinations of refined bitumen, synthetic rubbers, fillers and other additives, which are hot applied in conjunction with carefully selected reinforcement/detailing fabrics and protection layers to give the ultimate waterproofing performance.

Permaterc LI offers an environmentally conscious option with a third party verified GWP reduction in embodied carbon of up to 50%.

Installed by a nationwide network of Registered Installers, Permaterc LI and Anti-Root LI provides a fully bonded, tough, flexible, waterproof membrane for use on Inverted, Green, Bio-diverse, Blue, flat including zero fall protected roofs. Permaterc LI is also suitable for use as a damp-proof membrane in solid concrete floors or as the waterproofing layer in a typical sandwich membrane used for above or below ground waterproofing in concrete, brick or blockwork structures.

NB: Permaterc Anti-root LI is specifically designed for use in extensive and intensive green and biodiverse roof systems.

Durability

A Neuchâtel Permaterc LI Hot Melt Monolithic Roof, properly designed and maintained, can be expected to provide many years of trouble-free service. The CodeMark Certificate states; Under normal service conditions, the system will have a life of at least equivalent to the structure in which it is incorporated, provided it is designed, installed and maintained in accordance with this Certificate and the Certificate holder's instructions.

System	Product Code
Permaterc LI	24120080
Anti-Root LI	24126080

Block Weight	80 Blocks
Pallet (960kg)	12kg

System Components

Permaterc Polymer Primer

Neuchâtel Permaterc Polymer Primer is synthetic rubber based primer for use on concrete and other similar substrates prior to the installation of Neuchâtel Permaterc LI Hot Melt Waterproofing System.

Product Code	Drum Size	Coverage
24602500	25 Litres	4m ² /Litres

Permaterc High Penetration Primer

A brush or roller applied bituminous priming solution for the preparation of cementitious surfaces to receive Permaterc LI monolithic membrane.

Product Code	Drum Size	Coverage
24600025	25 Litres	6-8 m ² /Litres

PermaFLASH-D150

A nominal 1.25mm thick flexible bitumen EPDM polymer detailing sheet, which is installed as a reinforcement layer over cracks, construction joints, changes in materials and where minor movement may occur.

Product Code	Roll Weight	Roll Width	Roll Length
24150000	4.8kg	150mm	20m

PermaFLASH-D500

A flexible bitumen EPDM polymer detailing sheet, which is installed as a reinforcement layer around rainwater outlets.

Product Code	Roll Weight	Roll Width	Roll Length
24500000	16kg	500mm	20m

PermaFLASH-UN

A very flexible un-cured neoprene rubber reinforcement sheet for use as part of the Neuchâtel Permaterc LI hot melt waterproofing system over construction joints and structural movement joints with a maximum width of 25mm and maximum 50% total movement.

Product Code	Roll Weight	Roll Width	Roll Length
24600000	21kg	300mm	30m

PermaFLASH-R

A 55g/ m2 polyester reinforcement layer, installed between the two applications of Permateg LI or Permateg Anti- Root LI

Product Code	Roll Weight	Roll Width
24991000	11kg	1m

PermaGUARD-F

A sand surfaced 180g/m² polyester based bitumen membrane, installed as a protection layer in standard Permateg LI and Permateg Anti Root LI systems.

Product Code	Roll Weight	Roll Width	Roll Length
24010000	42kg	1m	20m

PermaGUARD-M-T-O

A high-performance torch applied SBS modified bitumen membrane with a 270g/m² polyester fibre carrier. It has a black mineral finish on the upper surface and thermos-fusible film on the underside. It is installed as a protection layer to Permateg LI on exposed details, or as an access protection layer in protected inverted build-ups.

Product Code	Roll Weight	Roll Width	Roll Length
24030008	36kg	1m	8m

PermaGUARD-PB

A 3.2mm thick protection board, fabricated with a bituminous core and glass fibre reinforcement. It exhibits high strength, excellent puncture resistance and non-compressive nature. Permguard-PB is installed into the second coat of Permateg Compound whilst it is still hot. Boards must be tightly butted and joints sealed with hot Permateg compound applied with a wide blade scraper.

Product Code	Board Weight	Board Width	Board Length
00910004	7.3kg	1220mm	1220mm

PermaGUARD-HDPB (Heavy Duty)

A 3mm thick high density polymeric protection board, which is extremely tough and with high impact resistance for use in heavy duty situations. Permguard-HDPB is installed into the second coat of Permateg LI Compound whilst it is still hot. Boards must be tightly butted and joints sealed with hot Permateg LI compound applied with a wide blade scraper

Product Code	Board Weight	Board Width	Board Length
62530000	10.5kg	1000mm	2000mm

Roofgarden 4 APP AD/F

A high-performance cap sheet consisting of a polyester base, coated with APP polymer modified bitumen. The bitumen coating contains a specially formulated anti root treatment, which prevents the penetration of roots from a range of plants and shrubs. Use as the final layer in a roof garden waterproofing specification where Permateg Anti-root LI Hot Melt Compound is not adopted. It has a slate finish on the upper surface, and a thermofusible film on the underside.

Product Code	Roll Weight	Roll Width	Roll Length
01520321	43kg	1m	7.5m

Installation & Maintenance

PERMATEC POLYMER PRIMER

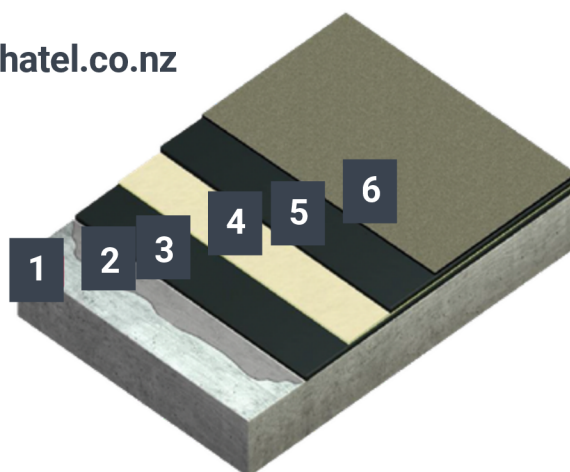
The Neuchâtel Permateg LI Hot-Applied Monolithic Membrane Roofing System must be installed in accordance with the Neuchâtel System Installation Guidelines and Neuchâtel instructions on a dry and frost-free substrate. After rain or snow, the substrate must be allowed to dry before installation can commence. The installer can aid drying by any suitable means approved by the Certificate holder. Once applied, the membrane is not affected by rain, snow or frost. To assess the suitability of an in-situ concrete substrate, bond tests must be carried out to ensure that adequate adhesion can be achieved. If bonding problems occur, advice must be sought from Neuchâtel. Prior to the application of the Permateg membrane, any defects in the substrate must be identified and repaired in accordance with Neuchâtel's instructions. Cementitious substrates must be conditioned with Neuchâtel Permateg High Penetration Primer or Neuchâtel Permateg Polymer Primer and allowed to dry before application of the membrane. The installed Permateg membrane must be covered by a protective layer immediately after installation. Detailing must be formed in accordance with the Neuchâtel instructions. **For detailed installation guidelines please visit www.neuchatel.co.nz**

As with all flat roofing and waterproofing systems it is essential proper and adequate maintenance is undertaken at routine intervals to ensure long term performance and life expectancy.

Maintenance guidance can be found at www.neuchatel.co.nz

Build Up

1. Specified substrate
2. Specified Permateg Primer
3. 1st Coat Permateg Low Impact Hot Melt
4. PermaFLASH-R Reinforcement
5. 2nd Coat Permateg Low Impact Hot Melt
6. Permateg APP AD/F



Disclaimer

Whilst every precaution is taken to ensure that the information given in this literature is correct and up to date it is not intended to form part of any contract or give rise to any collateral liability, which is hereby specifically excluded. Neuchâtel reserves the right to amend and/or withdraw this document without notice.

Intending purchasers of our materials should therefore verify with the company whether any changes in our specification, application details, withdrawals or otherwise have taken place since this literature was issued.



Neuchâtel Waterproofing Ltd

17 Manga Road
Silverdale
Auckland

Neuchâtel Sales Support

+64 21 840 660
info@neuchatel.co.nz
www.neuchatel.co.nz