

Viking  
**Torch-On**

the  
waterproofing  
solution you  
can trust

Roofspec  
**Viking**  
  
*Taking care of detail*

[www.vikingroofspec.co.nz](http://www.vikingroofspec.co.nz)





Viking Gemini Grey

## **Viking Torch-On Systems** **enduring protection in the toughest climates**

**Well-established and innovative Italian supplier 'General Membrane S.P.A.', designs and manufactures world-class waterproofing membrane systems; proven to endure the toughest climates on the planet.**

**What makes Viking Torch-On a cut above the rest?**

Viking Roofspec has partnered with General Membrane to offer four fit-for-purpose Torch-On Solutions. Specialising in modified bitumen technology, General

Membrane provides Viking Roofspec with exclusive and code-compliant plasticised (APP), rubberised (SBS), hybrid (APAO) and Anti-Root membrane systems. All are designed to cope with New Zealand and the Pacific's most brutal weather conditions.

The Viking Torch-On systems identified in this brochure are installed exclusively by Viking Approved Applicators, with Viking Roofspec being the only supplier in New Zealand to provide a professional Torch-On licensing programme.

Viking Torch-On systems come with a 20-year or 25-year product warranty.





Viking Gemini Grey



Viking Lybra Black

### **The Torch-On Membrane System**

A Viking Torch-On system comprises of two layers – a base sheet that serves as the primary waterproofing layer and a cap sheet installed on top. This serves as a secondary waterproofing layer and also provides the necessary UV protection. These layers are applied with a gas flame that melts the underside of the membrane onto the surface below. Installed on flat roofs; under floating decks and in gutters, this proven method of waterproofing has been serving the New Zealand construction sector well for over five decades.

### **Ceramic Chip Finish**

Viking's two-layer Torch-On systems exposed to the sun have a ceramic chip cap sheet. This ceramic chip provides the following improvements over traditional slate mineral chip surfaces:

- stronger UV resistance
- a more robust surface
- less chip loss
- less colour fade
- an aesthetically superior and more uniform finish

## Viking Torch-On fit for purpose solutions

**Viking Roofspec distributes three mainstream and one specialised roofing membrane product; all supplied by General Membrane S.P.A to cover the full range of above-ground waterproofing solutions.**

### Viking Phoenix Super APAO (Amorphous Polyalphaolefin) Hybrid Torch-On Membrane

Like any range of products, there is a platinum system for the discerning customer prepared to pay a little more for a higher grade of material. APAO Torch-On membranes; also known as 'hybrid' membranes, have been designed for roofs, under floating decks and in gutters demonstrating similar robust credentials to an APP membrane alongside the even greater cold-flexibility qualities of an SBS one.

This results in a high-quality; top-performing two-layered system that can be used in any climate that will traditionally last longer than most other systems. The hybrid system stocked in New Zealand and marketed exclusively by Viking Roofspec is called 'Viking Phoenix Super APAO'.

### Viking Gemini APP (Atactic Polypropylene) Torch-On Membrane

APP membrane systems represent a significant share of Torch-On membranes used in the market. Made from 'plasticised' bitumen, these robust two-layer membranes are used for roofs and under floating decks and in gutters in New Zealand's Climate Zones 1 and 2 (the North Island excluding the volcanic plateau).

APP membranes have a high melt point when in contact with a flame and boast some of the highest-puncture



resistance credentials in the market. The APP system stocked in New Zealand and marketed exclusively by Viking Roofspec is called 'Viking Gemini APP.'

### Viking Lybra SBS (Styrene Butadiene Styrene) Torch-On Membrane

SBS membrane systems are designed for geographic locations that experience climatic extremes. Made from 'rubberised' bitumen, this two layered membrane type is used for roofs, under floating decks and in gutters mostly in New Zealand's Climate Zone 3 (the South Island and the North Island volcanic plateau).

SBS membranes have a lower melt point and high cold-flexibility credentials allowing them to be exposed to lower temperatures without fracturing. The SBS system stocked in New Zealand and marketed exclusively by Viking Roofspec is called 'Viking Lybra SBS'.

### Viking Roof Garden Anti-Root Torch-On Membrane

Anti-Root membranes are used in roof garden projects to perform the important role of coercing plant and tree roots to turn away before membrane penetration through their inherent specialised chemical treatment. These membranes also possess high latitudinal strength to forgive structural movement of a building. The Anti-Root system marketed exclusively by Viking Roofspec is called 'Viking Garden FLL Anti-Root'.

## Quality Assurance

Viking Torch-On systems come with substantial product warranties from Viking Roofspec backed by the Tiri Group ([www.tiri.co.nz](http://www.tiri.co.nz)).

Viking Gemini APP, Lybra SBS, Roof Garden FLL Anti-Root all come with 20 year product warranties

**Viking Phoenix Super APAO comes with a 25 year product warranty.**

## Viking's Full System Warranty

Projects that represent 'absolute risk minimisation' in design, may be eligible for Viking's comprehensive Full System Warranty (also backed by Tiri Group), which covers both the materials and the approved applicator's installation in one document for 20 years (conditions apply – for more information on Viking's Full System Warranty, visit: [www.vikingroofspec.co.nz](http://www.vikingroofspec.co.nz)).



# The Keys to Success with Torch-On Membranes in New Zealand

## Alignment with an Innovative and World-class Manufacturer

General Membrane S.P.A has been manufacturing quality materials for international construction markets for decades. With innovation at the forefront of its mind, General Membrane S.P.A has a policy of re-investing a lot of its earnings back into Research and Development and testing its products in some of the world's most sophisticated laboratories. General Membrane S.P.A only engages with distribution partners who have an emphasis on training and supply of accredited systems.

## Viking Roofspec's Proven Record

A combination of:

- 50 years experience successfully supplying roofing and decking materials to New Zealand and the Pacific Islands
- alignment to a select network of licensed and approved applicators
- installing only world-class membrane systems that have been certified and appraised by nationally and/or internationally recognised product accreditation bodies

This has been instrumental in ensuring Viking Roofspec has one of, if not the lowest remedial rate in the waterproofing membrane industry.

## Quality of Installation – Viking's Licensing Programme

To ensure a professional and watertight finish, only Viking Approved Applicators are eligible to install Viking Torch-On materials featured in this brochure. Viking Approved Applicators are experienced and have been trained in the application of two-layer Torch-On membranes.

Viking Roofspec provides a professional Torch-On licensing programme. This three-stage course includes a full curriculum with both practical application and an all-important theoretical component on the principles of waterproofing. This licensing programme has been designed to ensure a professional standard of installation.

No applicator has access to Viking's systems and materials unless he or she has been licensed. This policy has been instrumental in Viking having one of, if not the lowest, remedial rate in the industry.

**Viking**  
**Approved**  
**Applicator**

## Product Assurance

Certain areas of New Zealand can be subjected to some of the toughest climatic conditions in the civilised world. This calls for construction materials to stand the test of time. At Viking Roofspec we offer quality assurance from CodeMark certifications and BRANZ appraisals, two of the highest possible forms of product assurance. Viking Roofspec has invested more funds into the appraisal and certification of our waterproofing materials than any of our competitors.



### CodeMark

Product Certification is the highest form of product assurance in the New Zealand, Australia and Pacific Islands construction sector. CodeMark provides a rigorous platform for construction products to be tested against compliance with building code requirements.

A CodeMark certified membrane system offers peace of mind and surety to building owners as compliance for consent is guaranteed if the materials have been used in accordance with the stringent criteria of the certificate.

**Viking Gemini APP and Lybra SBS Torch-On and Phoenix Super APAO membrane systems are CodeMark certified.**



## BRANZ Appraised

BRANZ is a nationally recognised body providing product appraisals through independent testing and verification of international lab reports for products being distributed in New Zealand. BRANZ appraises construction products to ensure they will withstand the New Zealand climate and conditions.

Viking Gemini APP, Lybra SBS and Phoenix Super APAO, are all BRANZ appraised under appraisal number 948 with all components of the Viking WarmRoof system included under separate appraisal number 713.



## BBA Certification

BBA (British Board of Agreement) is one of the world's highest possible accreditation benchmarks for a construction product. 'Viking Phoenix Super APAO' is BBA certified.



# Viking Gemini APP is New Zealand's first CodeMark certified torch-on system

## Torch-On membrane protects roof and deck in Auckland

### THE CHALLENGE

A new home was designed with the roof flowing nicely to a deck section, to provide a wonderful viewing platform of the coast. This upmarket home required a tidy, pristine finish that would be in-keeping with the neighbouring houses. The detailed design of the roof made waterproofing a challenge...and then there was the deck...

### THE SOLUTION

Seeking a solution that would also be suited to an exposed coastal environment was another consideration. The waterproofing applicator was consulted on the project and suggested the use of Viking Gemini APP; a two-layer Torch-On modified bitumen membrane system to meet all criteria.

All areas of the concrete and plywood substrates were primed before the Gemini APP base sheet was torch-applied. The Gemini APP cap sheet was then torched over the top of the base sheet, providing a total membrane thickness of 7mm. Ensuring all areas of the roof were watertight was no mean feat, the complexity of the design required the membrane to be applied to some tricky curves. Being a Torch-On system, the product was carefully manipulated and moulded through the use of heat to deal with curves, contours and upstands.

Planning was also vital to ensure the installation was a watertight and aesthetic success. The membrane was installed with the seams running at right angles to the upstands. This not only ensured the best look, it allowed for significantly easier installation, as the detailing and waterproofing of the upstands was much simpler and ensured maximum water-tightness.



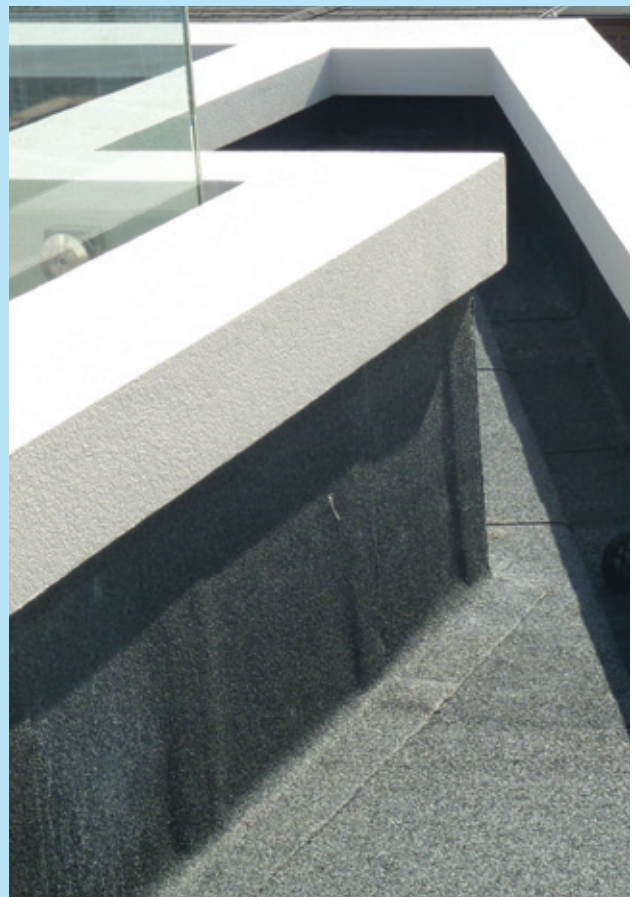


Gemini APP was also used as the waterproofing component for the deck. A floating deck would be installed on top of the Gemini APP, torched to the deck substrate. Viking Buzon screwjack pedestals would then be placed on the membrane to support the floating structure and allow water to drain freely under it and away from the building.

### **THE RESULT**

The end result was exactly what the home owners were looking for. They were conscious of how critical waterproofing is. They wanted a membrane system installed only by a licensed applicator and backed by a warranty that had been appraised to meet New Zealand's harsh conditions.

The roof and deck finishes were pristine and watertight, with the peace of mind of a 20 year product warranty.





# Warm and water-tight for all seasons – ‘Happy Valley’, Whakapapa

## Selection of a fit-for-climate solution

### THE CHALLENGE

Built in the 1980s, the bistro/café and ski rental buildings had serviced countless customers at Happy Valley. After 30 brutal volcanic plateau winters, weather-tightness issues were increasing and maintenance was becoming challenging and cost prohibitive.

### THE SOLUTION

Viking Roofspec was asked to supply a warrantable solution that would create a healthy, safe and watertight environment for customers and staff and to bring the buildings up to a standard aligned with the Department of Conservation’s covenants, as a world heritage listed national park.

A Viking WarmRoof System was proposed, with Viking Lybra SBS Torch-On membrane as the waterproofing component of the system. A Warm Roof was specified as it would insulate the building from the temperature extremes and a Warm Roof also moves the dew point to the outside of the roof, meaning no more condensation build-up inside.

The Viking Lybra SBS two-layer Torch-On was chosen as it has been formulated to manage extreme climates. SBS is rubberised asphalt with elastomeric properties that cope with the stresses caused by greater temperature extremes. It won’t crack; especially during the cold winter months; as it has a cold flexibility down to -15 degrees Celsius – a perfect solution for this environment.







The existing membrane was used as the vapour barrier and the rigid Kingspan polyiso insulation panels were mechanically fixed to this existing substrate to ensure it remained securely anchored to the building. The two-layer Lybra SBS membrane was then torch-applied directly on to the insulation panels. The snow rails used for point-loading, were redesigned to ensure these roofs manage the enormous amount of weight of snow during the winter.

This project was completed efficiently and effectively by one of Viking's membrane Approved Applicators. Their attention to detail ensured that the new roofing system was a vast improvement on the original roof for both weather-tightness and energy efficiency.

### THE RESULT






Enthusiastic skiers could now try on equipment and enjoy a coffee in a dry and warm environment. An added bonus was that the finished roofs remained beautifully juxtaposed in the natural snowy environment – a look the Department of Conservation was steadfast about maintaining.



**BRANZ Appraised**  
Appraisal No.948 [ 2017 ]

## Viking Phoenix Super APAO

Viking Phoenix Super APAO consists of a 4mm thick sand finish base sheet as the first waterproofing layer which is installed on a bitumen-primed substrate. A 4mm ceramic chip cap sheet is then installed on top. The cap sheet is available in black or grey. Both layers are torched-on with a propane gas-fuelled flame. Viking Phoenix Super possesses all of the durability properties inherent in the Gemini APP membrane, with the elastomeric advantages in the Lybra SBS resulting in a premium system with the industry's largest cold flexibility quotient of -35 degrees Celsius, plus excellent UV resistance. It's a truly superior system that can be installed with confidence anywhere in the South Pacific.






VIKING PHOENIX SUPER APAO				
<b>Application:</b> Roofs Decks Parapets Gutters	<b>Applicable Climate Zone:</b> Pacific Islands, Antarctica and all New Zealand Climate Zones	<b>Advantages:</b> <ul style="list-style-type: none"> <li>Flexibility at low temperature</li> <li>Thermal ageing resistance</li> <li>Form stability in hot conditions</li> <li>UV resistance</li> <li>Tensile resistance</li> <li>Ease of detailing</li> <li>High elongation properties</li> <li>Dimensional stability</li> <li>Resistance to tread</li> <li>Resistance to tearing</li> <li>Resistance to static loading</li> </ul>		
<b>WARRANTY:</b> 	 cold flexibility	 high temperature flow resistance		

DESCRIPTION	COLOUR	FINISH	THICKNESS	DIMENSIONS
Base Sheet	Black	Sand	4mm	1.0m X 10m
Cap Sheet	Black	Ceramic Chip	4mm	1.0m X 10m
Cap Sheet	Grey	Ceramic Chip	4mm	1.0m X 10m



## Viking Gemini APP

Viking Gemini APP consists of a 3mm thick sand finish base sheet as the first waterproofing layer which is installed on a bitumen-primed substrate. A 4mm ceramic chip cap sheet is then installed on top. The cap sheet is available in black or grey. Both layers are torched-on with a propane gas-fuelled flame. Viking Gemini APP is a robust and versatile membrane system ideally suited to New Zealand's North Island and the Pacific Islands.






VIKING GEMINI APP				
<b>Application:</b> Roofs Decks Parapets Gutters	<b>Applicable Climate Zone:</b> Pacific Islands and New Zealand's Climate Zones 1 and 2 (North Island except for Central N.I. volcanic plateau)	<b>Advantages:</b> <ul style="list-style-type: none"> <li>Ease of detailing</li> <li>Thermal ageing resistance</li> <li>Form stability in hot conditions</li> <li>UV resistance</li> <li>Tensile resistance</li> <li>Resistance to tread</li> <li>Dimensional stability</li> </ul>		
<b>WARRANTY:</b> 	 cold flexibility	 high temperature flow resistance		

DESCRIPTION	COLOUR	FINISH	THICKNESS	DIMENSIONS
Base Sheet	Black	Sand	3mm	1.0m X 10m
Cap Sheet	Black	Ceramic Chip	4mm	1.0m X 10m
Cap Sheet	Grey	Ceramic Chip	4mm	1.0m X 10m



# Viking Lybra SBS




Viking Lybra SBS consists of a 3mm thick sand finish base sheet as the first waterproofing layer which is installed on a bitumen-primed substrate. A 4mm ceramic chip cap sheet is then installed on top. The cap sheet is available in black or grey. Both layers are torched-on with a propane gas-fuelled flame. The elastomeric properties of Viking Lybra SBS make it a logical choice of membrane to fulfil the waterproofing requirements of buildings situated in areas subjected to climatic extremes.

VIKING LYBRA SBS	
<b>Application:</b> Roofs Decks Parapets Gutters	<b>Applicable Climate Zone:</b> New Zealand's Climate Zone 3 (South Island and Central North Island volcanic plateau)
<b>Advantages:</b> <ul style="list-style-type: none"> <li>Flexibility at low temperature</li> <li>Dimensional stability</li> <li>Ease of detailing</li> <li>Tensile resistance</li> <li>Thermal ageing resistance</li> <li>High elongation properties</li> </ul>	
<b>WARRANTY:</b> 	 cold flexibility
  	

DESCRIPTION	COLOUR	FINISH	THICKNESS	DIMENSIONS
Base Sheet	Black	Sand	3mm	1.0m X 10m
Cap Sheet	Black	Ceramic Chip	4mm	1.0m X 10m
Cap Sheet	Grey	Ceramic Chip	4mm	1.0m X 10m

# Viking Roof Garden FLL Anti-Root

A roof garden installed without a specialised root barrier membrane system is dicing with danger. Viking Roof Garden FLL Anti-Root membrane was developed specifically to deal with invasive roots. Aside from the chemical properties infused in the bitumen during manufacture to ensure roots don't penetrate into the building, this membrane's exceptional rot-proof polyester reinforcing mesh has been designed to avoid shrinkage and withstand extreme structural movement.

VIKING ROOF GARDEN FLL ANTI-ROOT	
<b>Application:</b> Roof Gardens	<b>Applicable Climate Zone:</b> Pacific Islands & all New Zealand Climate Zones
<b>Advantages:</b> <ul style="list-style-type: none"> <li>Tensile resistance</li> <li>Ease of detailing</li> <li>High elongation</li> <li>Resistance to tearing</li> <li>Root resistance</li> <li>Dimensional stability</li> <li>Flexibility at low temperature</li> <li>Form stability in hot conditions</li> <li>Thermal ageing resistance</li> </ul>	
<b>WARRANTY:</b> 	 cold flexibility
	 high temperature flow resistance

DESCRIPTION	COLOUR	FINISH	THICKNESS	DIMENSIONS
Base Sheet (2 layers)	Black	Sand	4mm	1.0m X 10m



masterspec





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to meet your needs**

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