



# BITUCLAD

Complies with E2/AS1 as an Acceptable Solution  
BRANZ Appraised - Certificate No. 567



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Appraisal No. 567 [2007]

**masterspec**  
Ref No. 4423 SB

## Bituclad Modified Bitumen Torch-on Membrane

### Product Information

#### Description

APP Plastometric Modified Bitumen Roofing and Waterproofing Membrane.

Modified bitumen membranes are simply roofing bitumens modified with a chemical polymer to alter the physical properties of the bitumen. Asphalt is the principle bitumen that is modified to make modified bitumen membranes.

There are two general types of modified bitumen membranes; APP, asphalt that is modified with atactic polypropylene, and those with asphalt that are modified with styrene butadiene styrene or SBS. These two general types of polymer modifiers give rise to materials that differ in physical characteristics as well as chemical composition. Generally, APP polymers modify the asphalt to give the membrane a “plasticized” nature. SBS polymers modify the asphalt to give the resultant material a “rubberized” nature.

Modified roof membranes are composed of reinforcing fabrics, usually polyester, glass fibre or both, that serve as the carrier or reinforcement for the hot modified bitumen, as it is manufactured into a roll of material. The reinforcements help to keep the bitumen in place within the sheet, they provide tensile strength and allow for varying degrees of elongation of the sheet.

All polymer modified sheets are factory coated on one or both sides with modified bitumen. Then the sheets are surfaced with very fine minerals such as sand, mica, or talc. These serve as release agents and prevent adhesion of the material while in roll form.

Modified bitumen membranes are produced in a variety of thicknesses or weights and a variety of reinforcements. Many smooth-surfaced sheets are used both as base sheets and as interply sheets in multiple-ply modified bitumen systems. Granule surfaced sheets generally serve as cap and flashing sheets.

Skellerup Viking recommends a minimum of two plies for any waterproofing application - in accordance with Industry code of practice.

Skellerup Viking Bituclad is manufactured on a private label basis by Italiana Membranes S.p.A.

#### SBS - Elastomeric Reinforced Membranes

SBS modified bitumen membranes distinguish themselves because of an extremely high elongation of the elastomeric compound (up to 2000%) an excellent elastic memory, excellent stress resistance and cold flexibility (up to -25°C). Generally SBS modified bitumens are applied using hot asphalt or special cold adhesives.

#### APP - Plastometric Reinforced Membranes

APP modified bitumen membranes differ from SBS membranes in the fact that they are generally “torch” applied rather than with hot asphalt or adhesives. APP membranes have excellent cold bending characteristics (up to -15°C). APP membranes perform in a wide range of applications because of the ease with which they may be installed.

APP Modified Bitumen Membranes are the most widely specified Bitumen Membranes in the New Zealand and Australian markets.

## Product Information

### Skellerup Viking Bituclad Vent Sheet

Function	Code	Roll Dimensions	Weight	Colour
Venting vapour from concrete substates	SEM400	1.0m x 30m c/w 40mm holes. (119 holes per m <sup>2</sup> of surface)	1.1 kg/m <sup>2</sup>	Black

### Skellerup Viking Bituclad Polyester Reinforced Plain Sheet

Function	Code	Roll Dimensions	Weight	Colour
Waterproofing	SEM427	3.0mm x 1.0m x 10m	3.8 kg/m <sup>2</sup>	Black

### Skellerup Viking Bituclad Polyester Reinforced Mineral Finish Sheet

Function	Code	Roll Dimensions	Weight	Colour
UV resistance	SEM448	4.0mm x 1.0m x 10m	5.0 kg/m <sup>2</sup>	Grey*

\* Other colours are available on indent, minimum order quantities will apply. Consult your Skellerup Viking representative.

### General Area of Application

Industrial, commercial, and residential roofing. Tanking, between slab waterproofing, tunnels.

### Finishes and Colours

Plain sheets are finished with sand finish.

Mineral cap sheets are finished with a mineral chip, and are available in grey ex stock (other colours are available on indent).

## Bituclad Polyester Reinforced Plain & Mineral Physical Properties

	Bituclad Plain Sand Finish	Bituclad Mineral Cap sheet
<b>R&amp;B Softening Point (ASTM D36)</b>	145 °C	145 °C
<b>Reinforcing Type</b>	Spunbond non-woven Polyester	Spunbond non-woven Polyester
<b>Cold Flexibility (UNI 8202)</b>	-10 °C	-10 °C
<b>Heat Resistance (UNI 8202)</b>	≥115 °C	≥115 °C
<b>Tensile Strength (UNI 8202)</b>		
- Ultimate longitudinal load	750 N/5 cm	750 N/5 cm
- Ultimate transverse load	500 N/5 cm	500 N/5 cm
- Ultimate longitudinal elongation	40%	40%
- Ultimate transverse elongation	45%	45%
<b>Static Puncture Resistance (UNI 8202)</b>		
- On fibre cement	SP4	SP4
- On 30 kg/m3 density polystyrene	SP4	SP4
<b>Dynamic Puncture Resistance (UNI 8202)</b>		
- On fibre cement	DP4	DP4
- On 30 kg/m3 density polystyrene	DP4	DP4
<b>Impermeability To Water (UNI 8202)</b>	absolute	absolute
<b>Behaviour In Water (UNI 8202)</b>		
- quantity absorbed	≤1%	≤1%
- loss of weight due to solubility	≤1%	≤1%
<b>Joint Pressure Resistance In Air</b>	≥10 KPa	≥10 KPa

## Bituclad Vent Sheet Physical Properties

Bituclad Vent Sheet	
<b>Type Of Reinforcing</b>	Reinforced glass fibre
<b>Hole Diameter</b>	40mm
<b>Holes per m<sup>2</sup></b>	119