



# FlameSEAL Modified Bitumen Base & Cap Sheet

Safety Data Sheet  
September 2021

## SECTION 1 – CHEMICAL PRODUCT & COMPANY IDENTIFICATION

**Product:**

**Product Name:** FlameSEAL Modified Bitumen Base & Cap Sheet  
**Other Names:** SBS Modified Bitumen Roofing Membrane  
**Product Code:** Various

**HSNO Approval:** Not applicable  
**Approval Description:** Not applicable  
**UN Number:** Not applicable  
**Proper Shipping Name:** Not applicable  
**DG Class:** Not applicable  
**Packing Group:** Not applicable  
**Hazchem Code:** Not applicable

**Product Description and Use:** Waterproofing applications (i.e: buildings, roof gardens, bridges, reservoirs, dams, canals, tunnels, transportation infrastructures)

**Company Details:**

**Company:** Sealco Limited  
**Address:** Unit 5, 18 Taurus Place, Bromley, Christchurch  
PO Box 35-190, Shirley, Christchurch  
**Telephone:** 03 366 9495, 0508 292 837  
**Website:** [www.sealco.co.nz](http://www.sealco.co.nz)

**Emergency Number:** **National Poisons Centre**  
**0800 764 766**

## SECTION 2 – HAZARDS IDENTIFICATION

This product is not classified as hazardous according to the criteria of the Hazardous Substances (Minimum Degrees of Hazard) Notice 2017.

**GHS Label Elements**

**Symbol(s)** - None required  
**Signal Word** - None required

**Hazard Statements:**

**H335** - May cause respiratory irritation

**Precautionary Statements:**

**P201** - Obtain special instructions before use.  
**P281** - Use personal protective equipment as required.  
**P260** - Do not breathe dust/fume/gas/mist/vapours/spray.

**P264** - Wash thoroughly after handling.  
**P270** - Do not eat, drink, or smoke when using this product.  
**P314** - Get medical advice/attention if you feel unwell.

**Disposal:**

**P501** - Dispose of content/container in accordance with local/regional/national/international regulation

**Health Risk:** Acute nose and throat irritation are possible during the heat treatment and application of the product, especially in indoor or poorly ventilated environments, due to the inhalation of potentially hazardous substances such as gas and condensed fumes.

**Safety Risk:** The molten product may adhere to the skin and may cause burns. The presence of inflammable materials (HC vapours, etc.) may cause fire events.

**Environmental Risk:** Membranes may cause long-term adverse effects because their components are not biodegradable.

### SECTION 3 – INFORMATION ON INGREDIENTS

**Composition:** The product consists in a mixture of penetration grade bitumen and polyolefin and/or elastomer polymers, manufactured in membrane rolls.

**Information on Ingredients:** The product does not contain any hazardous components in accordance with the Hazardous Substances (Minimum Degrees of Hazard) Notice 2017.

### SECTION 4 – FIRST AID MEASURES

**Inhalation** - In case of long-term inhalation of fumes, particularly in indoor or poorly ventilated environments, move person to fresh air and call for medical assistance.

**Skin Contact** - In case of skin contact with molten product, immediately flush skin with plenty of fresh water. Do not pull solidified product away from the skin by using solvents. Remove contaminated clothing immediately and seek immediate medical advice.

**Eye Contact** - If melt substance has got into eyes, wash out with water for at least 15 minutes and seek immediate medical attention. Do not pull product away from the eye. In case of irritation by fumes wash out with cold water.

**Ingestion** - Seek immediate medical attention.

### SECTION 5 – FIRE FIGHTING MEASURES

**Extinguishing Media**

**Suitable Extinguishing Media** - CO<sub>2</sub>, nebulized water, foam, dry chemical. Do not use direct stream of water to extinguish.

**Unsuitable Extinguishing Media** – None reported.

### Special PPE for Firefighters

In the event of fire, use air respirators with universal filter U.P.

In the case of indoor or poorly ventilated environments the personnel involved must be equipped with a breathing apparatus

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

Not applicable.

## SECTION 7 – HANDLING & STORAGE

**Conditions for Safe Storage:** Protect material from heat and direct sunlight (temperature 0° - 40°C) and keep away from electrical equipment. Keep rolls in a vertical position and do not stack them. For safe storage follow the specific storage recommendations for this product. It is not necessary to take precautionary measures to prevent the formation of static electricity. Open flames are prohibited. Keep extinguish media available (Point 5).

**Precautions for Safe Handling:** Provide appropriate ventilation when the product is applied in indoor or poorly ventilated environments.

**Precautions for Use:** Membrane applications should follow the “Technical instructions” provided by the manufacturer, according to the principles of good technique and Safety (point 8,16). In case of indoor or poorly ventilated applications, use the Personal Protective Equipment (Point 8). Avoid open flames.

## SECTION 8 – EXPOSURE CONTROL & PERSONAL PROTECTION

### Exposure Controls:

Open flame operations involved in installing bitumen-polymer waterproofing membranes may generate the dispersion of potentially hazardous substances.

Provide appropriate ventilation when the product is applied in indoor or poorly ventilated environments (Point 2) in order to keep the exposure levels below the required limits (T.L.V.- ACGIH).

### Personal Protective Equipment:

During product applications, the following personal protective equipment is recommended:

**Skin protection:** Protective gloves; long sleeve shirt, trousers, safety shoes.

**Eye protection:** Safety glasses

**Foot protection:** Safety shoes

In case of indoor or poorly ventilated indoor applications provide appropriate ventilation (Point 8.1). In case of inadequate ventilation system, use a respiratory protection equipment. The use of particulate filter respirators against solid & liquid particles is recommended (P3 protection).

### Hygiene Measures:

Wash hands before every break and after the work shift.

Keep work clothes separate from the other clothing.



## SECTION 9 – PHYSICAL & CHEMICAL PROPERTIES

<b>Physical State</b>	Solid membrane rolls	<b>pH</b>	Not applicable
<b>Odour</b>	Slight bitumen odour	<b>Flash Point</b>	> +230°C ca. (bitumen)
<b>Melting Point Range</b>	> +100°C	<b>Auto Ignition</b>	> +485°C ca. (bitumen)
<b>Boiling Point Range</b>	> +470°C ca. (bitumen)	<b>Flammability</b>	Calorific value 9.000 kcal/kg ca.
<b>Explosive Properties</b>	No	<b>Density</b>	1÷1,5 kg/dm <sup>3</sup>
<b>Oxidizing Properties</b>	No	<b>Vapour Pressure</b>	Not applicable
<b>Solubility in Water</b>	Insoluble	<b>Lipid Solubility</b>	YES (organic solvents; oils)

## SECTION 10 – STABILITY & REACTIVITY

<b>Stability</b>	The product is stable and is not considered to be reactive under normal temperature and pressure.
<b>Reactivity</b>	The product is chemically inert.
<b>Incompatible Materials</b>	Avoid contacts with oxidizing agents, especially under high temperatures, because the product may have esothermal reactions.

## SECTION 11 – TOXICOLOGICAL INFORMATION

### Product:

The product consists in a mixture of distilled bitumen and polyolefin and/or elastomer polymers and reinforcement.

The product does not contain coal tar and asbestos.

The product is not classified as hazardous.

### Information of Toxicological Effects:

The product may be applied in adhesive, cold or heat welded. Open flame operations involved in installing bitumen-polymer waterproofing membranes may generate the dispersion of potentially hazardous substances, (VOC) The exposure levels to these substances are widely below the normative limits for VOC fumes in metropolitan areas (Source: Bertazzi PA, FOA' V., Fustinoni S., see section 16)

### Acute health hazards:

- eye irritation
- skin irritation
- nose and throat irritation

Repeated long-term exposure needs regular medical examination.

The product should be applied in accordance with the rules of hygiene, safety, and good industrial practice, according to the technical instructions provided by the manufacturer.

## SECTION 12 – ECOLOGICAL INFORMATION

The product must be stored and used in accordance with the rules of hygiene, safety, and good industrial practice, according to the technical guidance provided by the manufacturer (Point 7) Dispose of this product according to national regulations, in order to avoid environmental pollution (Point 13).

## SECTION 13 – DISPOSAL CONSIDERATIONS

### Disposal Methods

Dispose of contents/container in accordance with local, regional, and national regulations.

## SECTION 14 – TRANSPORT INFORMATION

Land Transport Rule: Dangerous Goods 2005 – NZS5433:2007 – There are no specific restrictions for this product (Not a Dangerous Good).

<b>Shipping Name:</b>	Not Applicable	<b>Packing Group:</b>	Not Applicable
<b>UN #</b>	Not Applicable	<b>HAZCHEM Code</b>	Not Applicable
<b>Hazard Class:</b>	Not Applicable	<b>Precautions:</b>	Not Applicable

## SECTION 15 – REGULATORY INFORMATION

This product is not classified as Hazardous according to the criteria of the Hazardous Substances (Minimum Degrees of Hazard) Notice 2017.

## Section 16 – OTHER INFORMATION

### Abbreviations:

<b>CAS Number</b>	Unique Chemical Abstracts Service Registry Number.
<b>HAZCHEM Code</b>	Emergency action code of numbers and letters that provide information to emergency services, especially firefighters.
<b>HSNO</b>	Hazardous Substances and New Organisms (Act & Regulations).
<b>STEL</b>	Short Term Exposure Limit – The maximum airborne concentration of a chemical or biological agent to which a worker may be exposed in any 15-minute period, provided the TWA is not exceeded.
<b>TWA</b>	Time Weighted Average – generally referred to as WES averaged over typical workday (usually 8 hours).

**Reference:**

NIOSH Registry of toxic effects of chemical substances SAX Dangerous Properties of industrial materials. Bertazzi P.A., Foà V., Fustinoni S., "Esposizione professionale a idrocarburi policiclici aromatici durante la stesura bituminosa", Università degli Studi di Milano, Dipartimento di Medicina del Lavoro, Milano, 2005.

**Review**

<b>Date</b>	<b>Reason for Review</b>	<b>Version</b>
September 2021	Not applicable – New SDS	1

**Disclaimer:**

This SDS was prepared by Sealco Ltd and is based on our current knowledge, including information obtained by suppliers. This product may be formulated in part with components purchased from other companies. No warranty of merchantability, fitness for any use, or any other warranty is expressed or implied regarding the accuracy of such data or information. The SDS is given in good faith and constitutes a guideline (not a guarantee of safety). The level of risk each substance poses is relevant to its properties and how the substance is used. This information is furnished upon the condition that the person receiving it shall make his own determination of the suitability of the material for his particular use.