

FlameSEAL Torch-on

Modified Bitumen Membrane



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PRODUCT DESCRIPTION

FLAMESEAL® TORCH-ON MEMBRANE

The FlameSEAL® membrane system is comprised of a full range of torch-on membranes used in a wide range of waterproofing applications. The FlameSEAL® system may be fully torched, mechanically fixed or cold-applied using a bitumen adhesive depending on the performance required.

WHY FLAMESEAL®

FlameSEAL® has many outstanding product features, making it the ultimate choice when selecting torch-on products.

Its superior qualities of tensile strength, elongation and tear resistance sets FlameSEAL® apart as the ideal durable solution for your waterproofing requirements. In particular, FlameSEAL®...

- Has high tensile strength and tear resistance.
- Has excellent puncture resistance.
- Is BEAL Appraised.

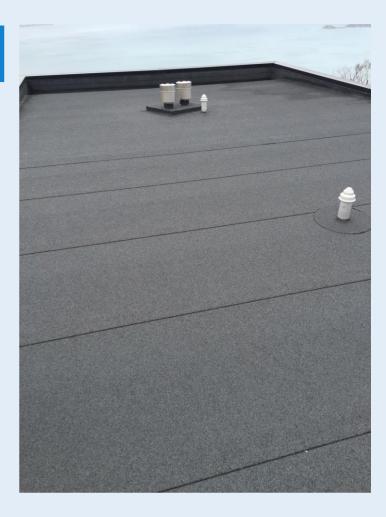
AREAS OF USE

FlameSEAL® membrane systems are used in a variety of waterproofing applications including;

- Flat roofs and gutter
- Below ground Tanking
- Decks and Balconies
- Podiums, car-decks and ramps
- Water tanks

SINGLE OR TWO LAYER SYSTEMS?

One of the advantages of a torch-on system is that a variety of systems can be used depending on the situation. As long-term performance and durability are our over-riding goals, Sealco strongly recommend two-layer systems be installed wherever possible. In roofing applications, fully torched, mechanical and peel & stick double layer system is required. In below ground tanking applications, single layers are often installed, however a two-layer system is also a recommended option as it provides greater protection against water penetration and mechanical damage by other trades or installations.



BEAL APPRAISED

The FlameSEAL® system has been BEAL appraised as an Acceptable Solution in terms of New Zealand Building Code compliance and the products *comply with NZBC Acceptable* Solution E2/AS1 Paragraph 12.2

Please contact Sealco Ltd for a copy of this BEAL Appraisal Certificate.

You can also download the certificate on our website

www.sealco.co.nz





Full system specifications, drawings & installation information can be viewed and downloaded from the BituFLAME page on our website:

Durability & Performance

ROOFING APPLICATIONS

When fixed according to specification, the FlameSEAL® system will meet the NZBC B2.3.1(b) requirements, being durable for 15 years.

The durability opinion given by BEAL for the FlameSEAL® system states that when subjected to normal conditions of environment and use, the system is expected to have a service life of at least 15 years.

TANKING APPLICATIONS

When fixed according to specification, the FlameSEAL® system will meet the NZBC B2.3.1(a) requirements of 50-year durability.

PRODUCT WARRANTY

On completion of each contract a product warranty for a period of up to 20 years is provided on request from the approved installer. Sealco FlameSEAL® roofing membrane has proven to perform well in excess of 15 years from the extremes of the harsh New Zealand climate conditions

Product characteristics (Typical Values)	FlameSEAL by SEALCO	standard
Cap sheet	СОМВО	
Thickness	4,5 kg/m2	EN 1849-1
Maximum slates loss	< 5% chip loss	EN 12039
Modified bitumen top coating Reinforcement	APP - modified bitumen 180 g/m² composite reinforcement	
	Satbilized Polyester	
Overlap coating	APP-to-SBS modifed bitumen	
Overlap joint strength: shear resistance	750 N/50mm	EN 12317-1
Overlap joint strength: peel resistance	150 N/50mm	EN 12316
Tensile strength: (longitudinal)	850 N/50mm	EN 12311-1
Tensile strength: (transversal)	850/750 N/50mm	EN 12311-1
Elongation: (longitudinal & transversal) Flow resistance at elevated	45%	EN 12311-1
temperature: External fire performance (= fire	150°C (APP) 100°C (SBS)	EN 1110
retardance)	Froof (International Code)	EN 13501-5
Expected lifetime Codemark	(cert. BBA) 30+ years	
Suitable for potable water collection	Yes	
Durability testing in New Zealand	Yes, 15+ years' service in NZ	

WARM & GARDEN ROOFS

FlameSEAL® membrane may be used in ballasted or garden roof applications where gravel and soil is installed on top of the membrane. The FlameSEAL® thermal adhered or peel & stick membranes are also suitable for our WarmSEAL insulated warm roof system. See our Sealco WarmSEAL & GreenSEAL information for more details.



APPROVED APPLICATORS

By choosing FlameSEAL®, you can have the added protection of a Sealco Licensed applicator complete the installation. Licensed applicators are the premier installers of Sealco Products, and once the job has been registered with Sealco Ltd, and complete to Sealco's Standards a material warranty will be issued.



The information contained in this brochure is based on current manufacturer information. No guarantees of its accuracy is made or implied, nor is responsibility taken for use to which this information may be utilised.

Sealco reserves the right to update this information without prior notice.





System Components

FLAMESEAL® PRIMER

A solvent based, bituminous primer designed to penetrate concrete or ply surfaces and provide a bondable surface. Supplied in 20ltr metal pails.

BITUBOND® ADHESIVE

A water-based bitumen adhesive used for glue-fixing torch-on membranes to gutters, parapets and other tricky detailing areas. Supplied in a 10ltr plastic pail.

FLAMESEAL® BASE SHEET

An APP-modified bitumen membrane with a with 180gsm spun-bound composite polyester reinforcement. FlameSEAL® BS has a thin torch- off polyethylene film or polyester mat on the underside, and polyethylene film on the top surface. FlameSEAL® BS is used as the base sheet in 2-layer systems or as the under flashing membrane. A variety of FlameSEAL® BS base sheets are available including peel & stick base sheets. Please contact your Sealco representative for advice.

FLAMESEAL® CAP SHEET

An APP-modified bitumen with a 180gm/m ² spun bond composite polyester reinforcement. FlameSEAL® CS has a thin torch-off polyethylene film on the underside, and polypropylene mat or mineral chip finish on the top surface. A variety of FlameSEAL® CS cap sheets including peel & stick cap sheets are available. Please contact your Sealco representative for advice.

FLAMESEAL® RE-ROOF MEMBRANE

A Specifically designed re-roof membrane compatible with SBS and APP modified bitumen membranes. It's very low viscosity bitumen enable it to be used directly over old granule-finished torch-on membranes. Available in 1mx10m rolls in mineral finish.

FLAMESEAL® CARPARK

An APP-modified bitumen membrane specially designed for bridges, tunnels, car parks with concrete or asphalt overlay. Available in 1.0m x 10.0m x 5mm rolls.

FLAMESEAL® ANTI-ROOT TANKING

An APP-modified bitumen with 180gsm spun-bound composite polyester reinforcement specially designed for roof gardens, where vegetation is foreseen and contains special additive with very high resistance to root penetration.

CHRYSTALGLAZE CLEAR COAT

A clear coating to assist with weather wear and to lock in the mineral chip to reduce chip loss and extend the life of the membrane. Supplied in a 10ltr pail.



SPECIFICATION GUIDELINES*

- Plywood and / or concrete substrates to be clean and fully dry/cured. Plywood to be tight butted, securely fixed and well supported to prevent movement.
- Slope to be sufficient to drain all surfaces
- All substrates to be primed, ensuring good, even coverage and penetration.
- All torch-on membranes to be torched to substrate and all laps seam welded.
- VentRITE Roof Vents to be installed on all skillion type roof spaces.

