



Sealco
Waterproofing Systems

EpiSPAN EPDM



SPANSEAL Ethylene Propylene Diene Monomer Membrane

PRODUCT DESCRIPTION

EpiSPAN® is a high quality EPDM rubber membrane (ethylene-propylene-diene monomer) used to provide waterproofing protection for a variety of roofing and exterior deck applications.

EpiSPAN® system includes the EpiSPAN® EPDM membrane, EpiSEAM® lap tape and EpiSTICK® adhesive. Also included as part of the system are the under-flashing and over-flashing tapes and associated sealants.

The EpiSPAN® system is a fully bonded rubber membrane applied over concrete, steel, fibre cement boards or construction plywood substrates.

EpiSPAN® has been independently appraised as an Acceptable Solution in terms of the NZBC, and complies with NZBC Acceptable Solution E2/AS1 Paragraph 8.5.

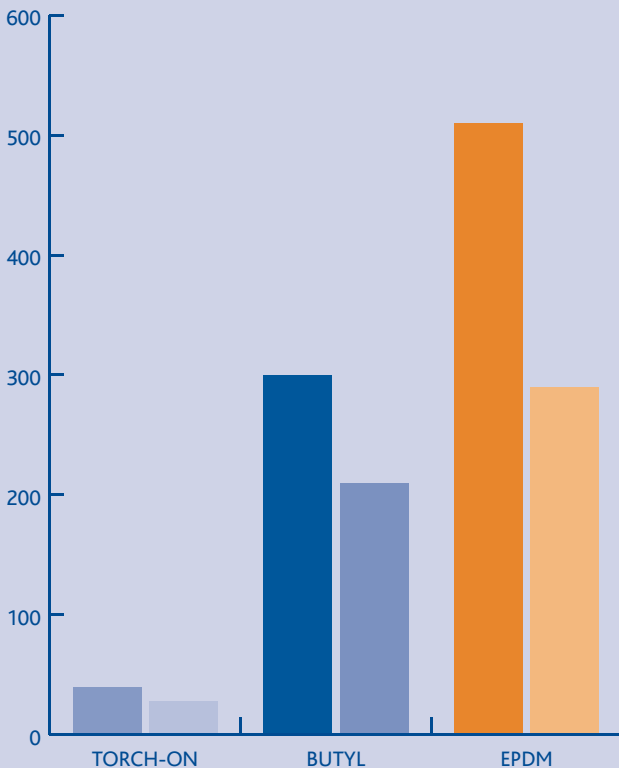
EpiSPAN® has also been appraised as an Acceptable Solution under the NZBC.

WHY EPDM

EPDM membranes have over 50 years of extensive use internationally in a wide variety of waterproofing applications. They are regarded as some of the most durable membranes available.

Elongation performance of common membranes

% elongation - before and after ageing



WHY EPISPAN®

RESISTANCE TO UV AND AGEING

The excellent UV and ozone resistance of EPDM is well known. This is particularly important in New Zealand's climatic conditions. Other membranes such as torch-ons rely on a granule finish or reflective coating to provide the necessary UV resistance. This is not required with the EpiSPAN® system. Furthermore, EPDM typically demonstrates a much higher elongation after ageing than other membranes. This is particularly important when working on timber substrates, which are prone to movement.



Above: epiROOF® Kraus House

HISTORY OF USE

In addition to the benefits of being an EPDM membrane, epiROOF® & epiSPAN® has extensive history of use. First installed in the 1960's, literally hundreds of millions of square metres have been installed since that time. EpiSPAN® has been used in some of the most demanding projects world wide.

EPISTICK® CONTACT ADHESIVE

The single-part epiBOND® contact adhesive gives a high performance bond. It is used to adhere the epiROOF® & epiSPAN® to the substrate, in detailing work.

EPISEAM® SYSTEM

EpiSEAM® is used in all lap joints to ensure an intimate seal. EpiSEAM® is a non-vulcanized rubber, that vulcanizes over time to produce an almost indestructible watertight seal. High strength seam primers are part of this system.

DRAINRITE®, FLOWRITE® & VENTRITE® ACCESSORIES

A range of pre-formed outlet accessories that have been specifically designed to allow water to escape from the roof through penetrations or outlets.



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

TECHNICAL SPECIFICATIONS

epiROOF® Material Specifications

Tensile Strength	10 Mpa	ASTM D412
Elongation	490 - 520 %	ASTM D412
Hardness, Durometer A	60	ASTM D1415
Tear Resistance	33.0 kN/m	ASTM D624
Ozone Resistance	No cracks	ASTM D1149
Water Permeability	3.8×10^{-6} mg/p.a.s.m ²	ASTM E96
Water Absorption	2.7 %	ASTM D471
Cold Flexibility	-49 °C	ASTM D746
Thermal Ageing	120°C 155hrs	
Tensile Strength	10.5 Mpa	ASTM 573
Elongation	280 - 300 %	ASTM 573

AREAS OF USE

EpiSPAN® is used as an exposed roofing and exterior deck membrane and in pond lining applications. When used as a deck membrane we do not recommend it be tiled over. It is best left exposed or alternatively covered with timber decking systems or pavers on ecoJACK® paver supports.

PACKAGING

EPISPAN® MEMBRANE IS AVAILABLE IN ...

- 1.2mm thick x 1.6m wide x 25m long rolls (black).
- 1.5mm thick x 1.6m wide x 25m long rolls (black).
- 1.1mm thick x 3m & 6m wide x 15.2m long rolls (black).
- 1.5mm thick x 3m & 6m wide x 15.2m long rolls (black).

Wider & longer rolls are available on indent.



Above: EpiSPAN® applicator training



EpiSPAN® St Andrews School - Christchurch

DURABILITY

When fixed according to specification, the EpiSPAN® system will meet the NZBC B2.3.1 (b) requirements of 15 year durability. EpiSPAN® meets the ASTM D6134 standard required by the Department of Building & Housing E2/AS1 Acceptable Solution.

The durability opinion given by BRANZ states that when subjected to normal conditions of environment and use, EpiSPAN® is expected to have a service life of at least 20 years.

Case histories of the EpiSPAN® system plus thermal ageing and ozone testing indicates the EpiSPAN® system is durable for in excess of 40 years.

BRANZ APPRAISED MEMBRANES

The EpiSPAN® system has been BRANZ appraised as an Acceptable Solution in terms of New Zealand Building Code compliance and the products comply with NZBC Acceptable Solution E2/AS1 Paragraph 8.5. These products are also appraised as an Acceptable Solution.

Please contact Sealco Waterproofing Systems Limited for a copy of these certificates. Certificates are also available for download from our website:

www.sealco.co.nz



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

SYSTEM COMPONENTS

EPISPAN® EPDM MEMBRANE

An EPDM (ethylenepropylene - diene monomer) rubber membrane, offering excellent resistance against weathering and ageing.

EPISTICK® ADHESIVE

A single-part rollable/sprayable solvent based, modified rubber contact adhesive for adhering the epiROOF® & epiSPAN® membrane and associated accessories.

EPISEAM® LAP TAPE

A room temperature curing butyl lap tape used in all side and end laps. epiTAPE is designed to cure over time giving an exceptional strong bond between the membrane laps.

EPISPAN® COVER TAPE

A non-vulcanized EPDM/butyl tape used in exposed over-flashing situations.

EPISPAN® UNDERFLASHING TAPE

A non-vulcanized, butyl tape used for internal and external corners, around rainwater outlets, vents and other complicated detailing situations.

EPISEAL SEALANT

A butyl-type termination sealant for termination flashing and used inside three way membrane junctions.

EPISPAN® PRIMER

A 50/50 solvent/adhesive mix primer, designed for use on plywood & concrete substrates.

EPICOLOUR COATING

A water-based coating used to provide additional colour options for EpiSPAN®. EpiCOLOUR is available in light colours only.

VENT & OUTLET ACCESSORIES

VentRITE® TPE vents are installed every 50m² to release moisture trapped under the epiROOF® membrane.

DrainRITE® & FlowRITE® TPE outlets are installed at the lowest point in the roof or gutter and recessed into place.



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