



**Sealco**  
Waterproofing Systems

# EcoTUFF TPO



TUFFSEAL Reinforced Thermoplastic Olefin Membrane

## PRODUCT DESCRIPTION

### EcoTUFF® TPO MEMBRANE

EcoTUFF® TPO membrane is a co-polymer of polypropylene and ethylene rubber that has been formed into a membrane sheet and reinforced with a heavy-duty polyester scrim. A “second generation” single ply product, EcoTUFF® marries the advantage of previous generation materials while eliminating their limitations. The result is a roofing membrane that is faster and easier to install yet offers outstanding resistance to weathering, temperature extremes, ultraviolet exposure and a whole wide variety of industrial chemicals. Suitable for low slope roofs, gutters, ponds and garden or warm roofs

### EcoTUFF® TPO FLEECE BACK

Waterproofing Systems EcoTUFF® TPO Fleece Back Membrane consists of a TPO sheet, vulcanized to non-woven polyester matting. Possessing excellent weathering, ozone and UV resistant characteristics, the Fleece-Backed TPO membrane enables the superior weathering characteristics of TPO to be matched with a strong waterproofing bonding medium (Fleece back water based adhesive) to provide a strong watertight surface suitable for foot traffic and also as an option over re-roofing degraded bitumen based membrane roofs.

### EcoTUFF® TPO SIZE & COLOURS

#### EcoTUFF Availability

EcoTUFF	Thickness	Width	Colour
Plain	1.14mm	2.4, 3.0 & 3.7m	White, Grey, Slate, Tan
	1.52mm	2.4, 3.0 & 3.7m	White, Grey, Slate, Tan
Indent	1.80mm	3.7m	Grey
Indent	2.00mm	3.7m	Grey
Fleece Back	1.14mm	3.7m	Grey
	1.52mm	3.7m	Grey

\* Please note: Some items only available on indent. Other colours available.

Please see our website for a full range of sizes and colours. Other colours are available on indent.

### PRODUCT WARRANTY

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



### BRANZ APPRAISED

The EcoTUFF® 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 12.2*

These products are also appraised as an Alternative Solution on buildings subject to specific design.

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

You can also download the certificate on our website

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



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

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



## ADVANTAGES OF EcoTUFF®

### LONG-TERM PERFORMANCE

EcoTUFF® TPO out performs competing roofing systems in just about every physical category. Cold temperature flexibility, seam strength, tear and puncture resistance and resistance to UV degradation are just some of the characteristics that make EcoTUFF® TPO stand out as your best roofing choice for long-term performance.

### A GREENER ROOF FOR THE ENVIRONMENT

EcoTUFF® TPO membranes have been manufactured with high quality materials that contain no problematic additives or stabilizers that can weather out over time and pollute our waterways and endanger our natural environment. Mechanical fixing options are also available that dramatically reduces the need for solvent based adhesives.

### ECOTUFF® ROOFS SAVE ENERGY

Internationally, EcoTUFF® roofs are ENERGY STAR listed. Compared to traditionally dark coloured roofs, a light coloured EcoTUFF® roof can yield significant reduction in air conditioning costs during the summer months.

### ECONOMICAL

EcoTUFF® can be economically installed in a variety of design configurations in either new or re-roof applications. In some cases the membrane can be installed over the top of an existing roof to avoid the high costs of tearing-off and disposing of the existing roof.

### FAST, EFFICIENT INSTALLATION

With pre-assembled fasteners, extra-large sheets, both mechanically fixed and adhered roofs go on fast! You are more competitive because you can complete the roof much faster than conventional systems – saving both you and your customer money.

### COMPLETE RANGE OF FLASHING ACCESSORIES

From pipe boots to corner flashings, EcoTUFF® prefabricated weldable flashings make the most troublesome details easier than ever.

### RELIABLE SEAMING SYSTEM

When using either the heat welded system, you are guaranteed to receive an extra strong lap that will out-perform any other. The welded seam gives superior performance and is a permanent joint.

### IDEAL FOR RE-ROOFING

EcoTUFF® is ideal for re-roofing applications where, in many cases, the membrane may be installed over the top of the existing roof. This can result in substantial savings on the cost of removing and disposing of the original membrane.



### WARM & GARDEN ROOFS

EcoTUFF TPO® membrane may be used in ballasted, warm or garden roof applications where gravel, insulation, and soil is installed on top of the membrane. See our Sealco WarmSEAL & GreenSEAL information for more details.

### LIGHTWEIGHT

Most EcoTUFF® roofs weight less than 4.9kg/sqm, including insulation. This can often yield considerable savings in a building's construction through reduced requirements for structural steel and footings.

### RESISTANT TO PHYSICAL ABUSE

The EcoTUFF® membrane is one of the most puncture and tear resistant roofing membranes available in the world today. Thicker membranes are available for high foot traffic use or potential damage areas.

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

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## System Components

### ECOTUFF® TPO / FLEECE BACK MEMBRANE

A full range of TPO membranes in standard width of 3.7m and up to 30.4m long. Available in 1.14mm and 1.52mm thicknesses also 1.80mm and 2.00mm thickness is available on indent order when required. Current colour options are grey and white also tan is available on indent. More colours are available from the manufacturer but may incur extra costs or require minimum quantities.

### ECOTUFF® TPO CONTACT ADHESIVE

A high strength solvent based contact adhesive formulated to quickly bond EcoTUFF® roofing membranes to a range of substrates. This formula can be applied with a brush or roller.

### ECOTUFF® TPO WATER BASED ADHESIVE

A high strength water based adhesive formulated to quickly bond fleece backed roofing membranes to a range of substrates. This formula can be applied with a brush or roller. An environmentally friendly option for your roof.

### ECOTUFF® TPO CUT EDGE SEALANT

A specially formulated edge sealer designed for use in water diversion applications. Please note this sealant is not designed to seal against leakage but is more designed to divert water away from laps or flashing details.

### PREFORMED CORNERS

A range on internal and external weldable preformed corners to make detailing both watertight and aesthetic. Preformed corners provide a sound cover over cut areas on corners.

Approved Installer:

### OUTLET ACCESSORIES

A full range of Thermal Polyethylene outlets designed to safely remove water from your roof through substrates or parapets. These include scuppers, droppers and clamped drain outlets.

### PIPE BOOTS

A series of pipe boots to suit from 15mm to 200mm pipe penetrations.

### POURABLE SEALER

A liquid TPO sealant that is used as a pourable sealer to seal off any unusual penetrations such as pipes, cables and brackets in the membrane system installed.

### FLASHING ACCESSORIES

A full range of steel flashings or fastening bars to securely terminate your membrane edges to the substrate.



### ONE WAY VENTS

TPO weldable one-way air vents that allow moist air to escape from your roof cavity reducing heat build-up, condensation and potential rot.

### WEATHERED MEMBRANE CLEANER

Cleaner specifically designed for aged, dirty or weathered membranes.

### WALKWAY ROLLS

Non-Slip walkway rolls to allow regular foot traffic to walk on the membrane.



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