



Approved Quality  
Management System  
AS/NZS ISO 9001:2008  
Lloyds Register-Certificate  
No. MEL 0927759

**Technical Data Sheet**  
**PREMSEAL 450 MEMBRANE**

<b>Description:</b>	A high performance membrane constructed from strong woven polypropylene film partially embedded into a compounded bitumen adhesive.
<b>Composition:</b>	A woven polypropylene backing coated with a modified bituminous self adhesive compound. Includes a release liner (interleaving) which is removed prior to use, for ease of application and handling.
<b>Characteristics:</b>	<ul style="list-style-type: none"> <li>• sticks and bonds rapidly and permanently to clean dry surfaces</li> <li>• fast and simple to apply</li> <li>• no special tools, heating or drying required</li> <li>• flexible, long lasting, self sealing to minor substrate blemishes</li> <li>• can help prevent mould by sealing out moisture</li> <li>• high puncture resistance and joint water pressure resistance</li> <li>• low water vapour transmission</li> <li>• withstands hot pours on roadways and car parks</li> </ul>
<b>Uses:</b>	Waterproofing in the construction industry when applied in accordance with BS 8102. Waterproofing of bridges, foundations, basements, roofs, decks, lift shafts, pits, service reservoir roofs, car parks, subways, bathrooms, balconies or trafficked structures where a high shear resistance is needed.
<b>Surface Preparation &amp; Application</b>	Ensure that surface is free from dirt, dust, contamination and if possible dry. Remove any loose material using a scraper or wire brush. To promote adhesion in cold weather it is preferable to warm up the tape to at least 15°C before application. Unwind and cut membrane to required length. Peel back about 5 cm of the release liner and with firm pressure apply the product to the surface. Ensure intimate contact is made and that no air is trapped. Mould the membrane around bends and corners. Using a cloth or small roller, ensure that all edges and overlaps are forming proper seals and installed in a manner were they will be self draining. Overlaps should be at least 25 mm.
	<b>Primer</b> Porous surfaces such as concrete or brick may be primed prior to application with a bitumen based primer (Denso Primer D). Always ensure volatile content of primer has evaporated before applying the membrane (dependent on ambient temperature, usually 10 - 30 minutes). Do not trap solvents between the tape and the surface being protected.
<b>Recommended Temperatures:</b>	Application (tape): + 15 to + 45 °C Service: - 10 to + 95 °C Peak: + 100 °C
<b>Storage:</b>	Store in a cool, dry area away from direct heat and sunlight.
<b>Available Sizes:</b>	1000 mm x 20 m long logs Other sizes available by on request by special arrangement.



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<b>Physical Properties:</b>	<b>Test</b>	<b>Method</b>	<b>Units</b>	<b>Typical Values</b>
	Thicknesses - Backing - Adhesive - Total	ASTM D751	mm	0.30 1.35 1.65 ± 0.15
	Total Weight	ASTM D751	kg/m <sup>2</sup>	1.75 ± 0.15
	Tensile Strength	ASTM D412	MPa	≥ 9.0
	Breaking Strength	ASTM D1000 ASTM D412	N/mm	≥ 5.0 ≥ 12.0
	Elongation at Break	ASTM D1000 ASTM D412	%	50 22 ± 3
	Puncture Resistance	ASTM E154 (ASTM D1709)	N	900
	Adhesion	ASTM D1000	N/mm	4.0
	Water Vapour Transmission Rate	ASTM E96	g/m <sup>2</sup> .hr	0.07
	Permeance (Water Method)	ASTM E96	g/Pa.m <sup>2</sup> .s	1.61 x 10 <sup>-8</sup>
	Hydrostatic Pressure Resistance of Waterproofing Membranes	ASTM D5385	690 kPa.hr	≥655 kPa.hr
	Water Penetration Joint	MOAT 27.5.1.4	%	Nil
	Dimensional Stability Longitudinal Lateral	MOAT 27.5.1.6	%	-0.1 -0.2