

premier
COATINGS LTD

DENSO WATERPROOFING SYSTEMS



Approved Quality Management System
AS/NZS ISO 9001:2008
Lloyds Register - Certificate N° Mel 0927759

Denso[®]

Denso (Australia) Pty Ltd

A MEMBER OF WINN & COALES INTERNATIONAL



411 -413 Victoria Street, Brunswick Vic 3056, Australia

MELBOURNE • SYDNEY • ADELAIDE • BRISBANE • PERTH

Tel: + 61 3 93567600 • Email: denso@densoaustralia.com.au • Web: www.densoaustralia.com.au

Denso (New Zealand) Limited Tel: + 64 9 274 1255 • Email: info@denso.co.nz



Premseal Tilesafe Membrane

Description:	Premseal Tilesafe Membrane is a unique heavy duty self adhesive waterproofing membrane, which facilitates instant waterproofing and tiling.
Composition:	Consists of a thick rubberised bitumen adhesive waterproofing membrane, backed with a woven fibreglass mesh which provides an initial key to the tile adhesive which then forms a permanent bond to the bitumen membrane.
Characteristics:	<ul style="list-style-type: none">• provides complete protection from water damage to the substrate as well as preventing leakages through floors, balconies etc.• sticks and bonds rapidly and permanently to clean dry surfaces• fast and simple to apply, no special tools or drying required• flexible, long lasting, self sealing to minor substrate blemishes• helps prevent mould growth by sealing out moisture• no volatile components
Uses:	Developed to provide absolute and long-term waterproofing for balconies, bath/shower and other tiled areas whilst facilitating instant tiling.
Surface Preparation & Application:	<p>Ensure that surface is free from dirt, dust, contamination and if possible dry. Remove any loose material using a scraper or wire brush.</p> <p>To promote adhesion in cold weather it is preferable to warm up the tape to at least 15°C before application.</p> <p>Prime surface with a bitumen based primer such as Denso Primer D or Denso Penetrating Primer and put double sided tape on all side and end butt joints before the application of the membrane.</p> <p>Unwind and cut membrane to required length. Peel back about 5cm of the release liner and with firm pressure apply the product over the centre of the double sided membrane. Make sure the top plastic release film from the double sided membrane tape is removed just before positioning takes place. Ensure correct alignment and intimate contact so that no air is trapped. Ensure that all edges and overlaps are forming proper seals. Overlaps should be at least 25mm.</p>
Recommended Temperatures:	Application (tape): + 15 to + 50 °C Service: - 10 to + 65 °C Peak: + 65 °C
Storage: Shelf Life:	Store in a cool, dry area away from direct heat and sunlight. ≥ 6 months
Available Sizes:	1000mm wide x 20 metre long logs Other sizes available on request



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



Denso (Australia) Pty Ltd

A MEMBER OF WINN & COALES INTERNATIONAL

411 -413 Victoria Street, Brunswick Vic 3056, Australia

MELBOURNE • SYDNEY • ADELAIDE • BRISBANE • PERTH

Tel: + 61 3 93567600 • Email: denso@densoaustralia.com.au • Web: www.densoaustralia.com.au

Denso (New Zealand) Limited Tel: + 64 9 274 1255 • Email: info@denso.co.nz



Physical Properties:	Test	Method	Units	Typical Values
	Total Thickness	ASTM D751	mm	1.60 ± 0.15
	Total Weight	ASTM D751	kg/m ²	1.70 ± 0.10
	Adhesion	ASTM D1000	N/mm	≥ 2.0
	Puncture Resistance	ASTM E154 (ASTM D1709)	N	400
	Water Vapour Transmission	ASTM E96	g/24hr.m ²	0.5

Description:	A tough, durable, high performance flexible membrane for waterproofing and sealing protection in construction industries. It is specifically designed as a barrier to prevent moisture or water ingress.
Composition:	A highly self adhesive bituminous compound backed with a biaxially oriented and cross laminated high density polyethylene film.
Characteristics:	<ul style="list-style-type: none"> • simple, fast and easy to apply, no special tools required • a flexible, robust, 1.50mm nominal thickness membrane • water and vapour resistant • offers full protection for all weather situations • selvedge strip promotes immediate, secure lap sealing on edges • can help prevent mould by sealing out moisture
Uses:	Ideal for waterproofing and sealing of foundations, basements, roofs, plaza decks, lift shafts, pits, car parks, subways and bathrooms. Has many other uses in marine situations to seal, weatherproof and prevent corrosion.
Surface Preparation & Application:	<p>Ensure that surface is free from dirt, dust, contamination and if possible dry. Remove any loose material using a scraper or wire brush.</p> <p>To promote adhesion in cold weather it is preferable to warm up the tape to at least 15°C before application.</p> <p>Unwind and cut tape to required length.</p> <p>Peel back about 5cm of the release liner and with firm pressure apply the product to the surface. Ensure intimate contact is made with the substrate and that no air is trapped.</p> <p>Mould the tape around bends and corners.</p> <p>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 25mm.</p>
Primer:	<p>Porous or pitted surfaces such as concrete or brick should be primed prior to application with a bitumen based primer such as Denso Primer D.</p> <p>Always ensure volatile content of primer has evaporated before applying the tape. Do not trap solvents between the tape and the surface being protected.</p>



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



Denso (Australia) Pty Ltd

A MEMBER OF WINN & COALES INTERNATIONAL



411 -413 Victoria Street, Brunswick Vic 3056, Australia

MELBOURNE • SYDNEY • ADELAIDE • BRISBANE • PERTH

Tel: + 61 3 93567600 • Email: denso@densoaustralia.com.au • Web: www.densoaustralia.com.au

Denso (New Zealand) Limited Tel: + 64 9 274 1255 • Email: info@denso.co.nz



Premseal 100

Recommended Temperatures:	Application: + 15 to + 45 °C Service: - 10 to + 90 °C Peak: + 95 °C			
Storage:	Store in a cool, dry area away from direct sunlight, preferably in original cartons.			
Available Sizes:	1000mm wide x 20 metres long logs Other sizes available on request by special arrangement.			
Physical Properties:	Test	Method	Units	Typical Values
	Thicknesses - Backing - Adhesive - Total	ASTM D751	mm	0.1 1.4 1.50 ± 0.20
	Total Weight	ASTM D751	kg/m ²	1.60 ± 0.16
	Density	ASTM D792	kg/L	0.96
	Breaking Strength	ASTM D1000	N/mm	5.0
	Elongation at Break	ASTM D1000	%	300
	Puncture Resistance	ASTM E154	N	230
	Impact Resistance	ASTM G14	J	1.3
	Tear Strength	ASTM D1004	N	30
	Adhesion Strength - 180° to steel	ASTM D1000	N/mm	≥ 3.0
	Water Vapour Transmission Rate	ASTM E96	g/m ² .24hr	0.30
	Water Penetration - Joint	MOAT27 5.1.4	%	Nil
	Dimensional Stability	ASTM D1204	%	- 0.2

Description:	A tough, durable, flexible membrane for the waterproofing and corrosion protection of above ground structures.
Composition:	A polyester fibre mat laminated to a reinforced bitumen adhesive compound with an exposed seldge to allow it to amalgamate with adjacent layers.
Characteristics:	<ul style="list-style-type: none"> • sticks and bonds rapidly and permanently to clean dry surfaces • fast and simple to apply • no special tools or drying required • flexible, long lasting, self sealing to minor substrate blemishes • can help prevent mould and rust by sealing out moisture and air. • no volatile components, immediately paintable • Excellent weather resistance
Uses:	Waterproofing of exposed new flats, parapets, box gutters and the joining of new extensions. Also recommended for the maintenance and refurbishing of existing flat roofs and like surfaces.
Surface Preparation & Application:	<p>Ensure that surface is free from dirt, dust, contamination and if possible dry. Remove any loose material using a scraper or wire brush.</p> <p>In cold weather before application warm up the membrane to at least 15°C to promote adhesion.</p> <p>Start applying the membrane at the lowest point and work your way across the surface, then proceed to the higher points ensuring that a self draining overlap is formed.</p> <p>Unwind and cut membrane to required length. Peel back about 5cm of the release liner and with firm pressure apply the product to the surface. Peel away the remaining liner as the membrane is progressively applied.</p> <p>Ensure intimate contact is made with the substrate and that no air or water is trapped. Adjacent layers of membrane are to be overlapped onto the exposed adhesive seldge. The adhesives will then amalgamate forming an airtight, waterproof layer. Mould the membrane around bends or corners if necessary.</p> <p>Using a cloth or small roller, ensure that all edges and overlaps are forming proper seals. Overlaps should be at least 25mm.</p>
Primer	<p>To promote adhesion and fill porous surfaces, substrates should be primed prior to membrane application with a bitumen based primer, such as Denso Primer D or Denso Penetrating Primer.</p> <p>Always ensure volatile content of primer has evaporated before applying the membrane (10 - 20 minutes). Do not trap solvents between the membrane and the substrate surface being protected.</p>
Topcoat	For long lasting ultraviolet radiation protection paint with Denso Acrylic Topcoat coating, in a choice of colours.



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



Denso (Australia) Pty Ltd

A MEMBER OF WINN & COALES INTERNATIONAL

411 -413 Victoria Street, Brunswick Vic 3056, Australia

MELBOURNE • SYDNEY • ADELAIDE • BRISBANE • PERTH

Tel: + 61 3 93567600 • Email: denso@densoaustralia.com.au • Web: www.densoaustralia.com.au

Denso (New Zealand) Limited Tel: + 64 9 274 1255 • Email: info@denso.co.nz



Recommended Temperatures:	Application (tape): + 5 to + 35 °C Service: - 20 to + 70 °C Peak: + 70 °C
Storage: Shelf Life:	Store in a cool, dry area away from direct heat and sunlight. ≥ 6 months
Available Sizes:	1000mm x 15 metres (approx. 12m ² of coverage, including overlaps). Other roll sizes available on request by special arrangement.

Physical Properties:	Test	Method	Units	Typical Values
	Total Thickness	ASTM D751	mm	1.50 ± 0.15

Description:	A high performance membrane constructed from strong woven polypropylene film partially embedded into a compounded bitumen adhesive.
Composition:	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.
Characteristics:	<ul style="list-style-type: none"> • sticks and bonds rapidly and permanently to clean dry surfaces • fast and simple to apply • no special tools, heating or drying required • flexible, long lasting, self sealing to minor substrate blemishes • selvedge strip promotes immediate, secure lap sealing on edges • can help prevent mould by sealing out moisture • high puncture resistance and joint water pressure resistance • low water vapour transmission • withstands hot pours on roadways and car parks • British Board of Agrément Certified product
Uses:	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.
Surface Preparation & Application	<p>Ensure that surface is free from dirt, dust, contamination and if possible dry. Remove any loose material using a scraper or wire brush.</p> <p>To promote adhesion in cold weather it is preferable to warm up the tape to at least 15°C before application.</p> <p>Unwind and cut membrane to required length.</p> <p>Peel back about 5cm 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.</p> <p>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 25mm.</p>
Primer	<p>Porous surfaces such as concrete or brick may be primed prior to application with a bitumen based primer (Denso Primer D).</p> <p>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.</p>

Physical Properties:	Test	Method	Units	Typical Values
	Thicknesses - Backing - Adhesive - Total	ASTM D751	mm	0.30 1.35 1.65 ± 0.15
	Total Weight	ASTM D751	kg/m ²	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 ² .hr	0.07
	Permeance (Water Method)	ASTM E96	g/Pa.m ² .s	1.61 x 10 ⁻⁸
	Hydrostatic Pressure Resistance of Waterproofing Membranes	ASTM D5385	690 kPa.hr	Pass
	Water Penetration Joint	MOAT 27.5.1.4	%	Nil

Description:	Premboard is a versatile, semi-rigid board with high impact properties and excellent strength to weight ratio.
Composition:	A polypropylene co-polymer consisting of a twin wall profile extrusion, connected by a series of vertical ribs
Characteristics:	<ul style="list-style-type: none"> • Ranges in weight from 250 gsm to 2000 gsm • Range of colours available: natural, white, black, red, blue, green, yellow, and grey. Other colours by request. • Excellent chemical resistance properties, however solvents/stress crack agents and strong acids/oxidising agents should be avoided • 100% recyclable
Uses:	<p>Protection of waterproof membranes against mechanical damage during construction, backfilling and when in service.</p> <p>Protection of finished surfaces to avoid damage by secondary trades.</p>
Recommended Temperatures:	<p>Application: + 5 to + 55 °C</p> <p>Service: - 20 to + 85 °C</p> <p>Peak: + 85 °C</p>
Storage:	UV Stabilised Premboard has an expected outdoor life up to two years depending on colour, degree of sunlight exposure and general weather conditions
Available Sizes:	<p>Standard sizes: 1830 x 1220 mm, 1830 x 915 mm, 2440 x 1220 mm</p> <p>Thickness range: 2.00 - 10.5 mm</p> <p>Other sizes available by arrangement.</p>

Mechanical and Thermal Properties:	Test	Method	Units	Value
	Tensile Strength @ Yield	ASTM D638	MPa	25
	Flexural Modulus	ASTM D790	GPa	1.1
	Izod Impact	ASTM D256	J/m	134
	Izod Impact @ 23°C	ISO 180/1	kJ/m ²	14
	Izod Impact @ 0°C	ISO 180/1	kJ/m ²	6.5
	Izod Impact @ -23°C	ISO 180/1	kJ/m ²	4
	Specific Gravity	ASTM D792	Kg/L	0.910-0.925
	Hardness	ASTM D2240	Shore D	68
	Mould Shrinkage	ASTM D955	%	1-2
	Heat Deflection Temperature @ 1.82 MPa	ASTM D696	°C	50
	Co-efficient of Linear Thermal Expansion	ASTM D696	mm/mm/°C	10-15 x 10 ⁻⁵