

Bituthene® 5000 Waterproofing Membrane



Composite membrane incorporating high performance moisture and water-resistant rubberised asphalt with tough, puncture and heat-resistant polypropylene reinforcing mesh.

Specially developed for use under a hot applied asphalt concrete wearing course.

Cold Applied

No heating or hot bitumen bedding adhesive required, self-adhesive overlaps provide continuity

Flexible

Easily applied, conforms to changes in profile, accommodates shrinkage cracks up to 0.6mm

Robust

Accepts road-laying machinery

Preformed

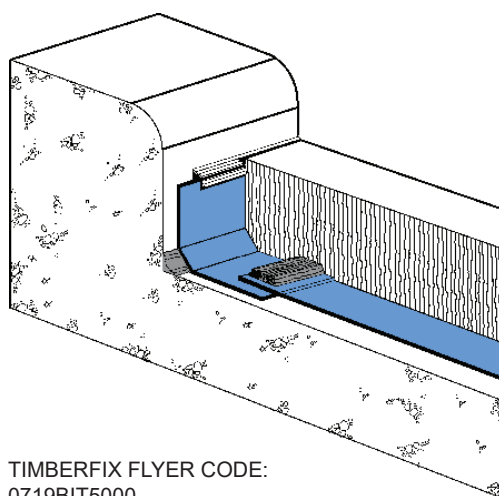
Guaranteed thickness, not subject to site variation

Mesh Reinforced

Provides dimensional stability and resistance to damage

Rubber / Bitumen

Self-adhesive, elastic compound provides bonding and transmission of braking forces to substrate, allows healing of small punctures



TIMBERFIX FLYER CODE:
0719BIT5000

Bituthene® 5000	Quantity	TIMBERFIX order code
1.0m x 20m Roll	1 per carton	BITU50001000
100mm x 20m Roll	10 per carton	BITU5000100
150mm x 20m Roll	6 per carton	BITU5000150
200mm x 20m Roll	5 per carton	BITU5000200
250mm x 20m Roll	4 per carton	BITU5000250
300mm x 20m Roll	3 per carton	BITU5000300
350mm x 20m Roll	2 per carton	BITU5000350
400mm x 20m Roll	2 per carton	BITU5000400
450mm x 20m Roll	2 per carton	BITU5000450
500mm x 20m Roll	2 per carton	BITU5000500
Solvent Primer 20L	1 req'd / 20m ² of tape	BITU5000PRIM



TIMBERFIX

sales@timberfix.com.au
www.timberfix.com.au

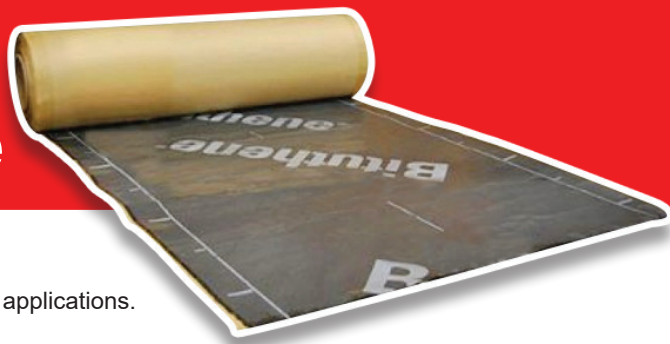
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NEXT MORNING DELIVERY



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Bituthene® 5000 Waterproofing Membrane



Application

BITUTHENE® 5000 is supplied in rolls 1.00m wide, 20.0m long and in min. membrane thickness of 1.6mm and 2.0mm.

The rubberised asphalt is covered with release paper that is removed during installation. The membrane is self-adhesive and cold applied. No special adhesive or equipment is necessary to form laps. BITUTHENE® 5000 is an excellent waterproofing membrane for plazas, bridges, vehicular traffic structures, or parking decks to be overlaid with an asphalt concrete wearing course. It is adaptable for

either new construction or repair applications.

BITUTHENE® 5000 strips are recommended for the restoration of concrete pavements with asphalt concrete overlays to prevent premature deterioration of asphalt paving over the transverse and longitudinal joints caused by reflection cracking and sub-base erosion.

BITUTHENE® 5000 membrane will remain flexible to perform over the extreme range of service temperatures expected on plazas, bridges, and parking decks. Its toughness and

flexibility allow it to cycle over small cracks, even during critical winter months.

The membrane is highly resistant to water and deicing salt solutions. Electrical resistance measurements on structures have been exceptionally high to indicate the effectiveness of Bituthene 5000® in preventing water migration into decks.

Surface Preparation

Smooth, monolithic concrete surfaces are required for proper membrane adhesion. Surfaces must be free of voids, spalled areas, loose aggregates, and sharp protrusions, with no coarse aggregate visible. Broom finishes must not be used. Concrete must be cured and dry before applications of BITUTHENE® 5000. Clean surface (broom, vacuum cleaner or compressed air) to remove dust, loose stones, and debris

Priming

Apply BITUTHENE® Solvent Primer, to all concrete or masonry surfaces with a lambswool roller (6 ~ 8m² per litre). Allow primer to dry one hour or until tack free. Prime only the area which will be covered with membrane in a working day. Areas not covered with membrane in 24 hours must be reprimed. For vertical surfaces, use BITUTHENE®

Vertical Primer. BITUTHENE® primer type C is a water-based product and can be applied on damp surface with moisture content less than 10%.

Temperature

Apply BITUTHENE® 5000 waterproofing membrane only in fair weather when air and surface temperature are above +5°C.

Slab Drainage and Joints

Provide proper pitch to drains and gutters. BITUTHENE® 5000 should be laid from the low point to the high point with the membrane overlapped min. 50mm in shingle fashion. Weep holes or drainage openings should be provided at the structural deck level to drain water which penetrates the asphalt concrete. A 320 mm reinforcing strip of BITUTHENE® 5000 must be applied over nonworking joints or cracks not exceeding 3mm in width before applying the full coverage of membrane. Terminate BITUTHENE® 5000 at expansion joints and seal terminations with BITUTHENE® Mastic 100 at the termination to ensure a tight seal. Steel finger joints or other expansion joints assemblies should be placed to the level of the asphalt concrete overlay.

Supply

BITUTHENE® 5000 1.6mm thick - 1.0m wide x 20.0m long/roll. Weight Gross weight 40kg

BITUTHENE® Solvent Primer 20L / pail (6 ~ 8 sq m / L)

BITUTHENE® Vertical Primer 20 L/pail
BITUTHENE® Primer Type C 20 L/pail
BITUTHENE® Mastic 100 20L pail

Performance

Property	Typical Test Values	Test Method
Thickness*	1.6 mm	-
Tensile Strength - Mesh	10N/mm ²	ASTM D882
Elongation - Ultimate Failure of Rubberised Asphalt	>100%	ASTM D412
Pliability at Low Temperature (-32°C)	No damage	ASTM D1970
Puncture Resistance - Mesh	>900N	ASTM E-154

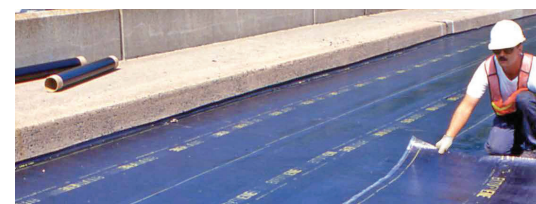
Typical Test Values may represent average values from samples tested. Test Methods noted may be modified.

Paving

The asphalt concrete overlay should be placed as soon as possible after application of BITUTHENE® 5000. A minimum of 50 mm compacted overlay is recommended. The preferred asphalt concrete temperature in the paving machine hopper is 140°C to 160°C. Preformed protection courses such as roofing felts or asphaltic hardboard are not recommended. Paving must not be started following rain until the membrane surface is dry. Only asphalt concrete delivery equipment should be permitted on the membrane prior to placement of the asphalt concrete. Flat tracked or pneumatic tire equipment may be used. In the event of skidding of the pneumatic tire machine during warm weather, broadcast a very small amount of fine sand or cement in the tire paths. Excess use of cement or sand could prevent adhesion of the asphalt concrete. Pavers should avoid stopping with a full hopper or build-up of material in the auger. If a stop is necessary, use extreme care in restarting. Paver screeds should be preheated, but burners should not be on during paving.

Compatibility

BITUTHENE®5000 is incompatible with certain fresh tars, pitches, liquid waterproofing, and sealants which contains tars or polysulfide polymer. Avoid direct contact of the adhesive layer of BITUTHENE® 5000 or BITUTHENE® Mastic 100 with such systems.



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