

BITUTHENE 3000

BITUTHENE[®] 3000

High performance waterproofing membrane for sub-structures and flat deck applications

Product Description

BITUTHENE[®] 3000 is a high performance, cold-applied, flexible, preformed waterproof membrane combining a special high performance, cross-laminated, HDPE carrier film with a unique self-adhesive rubber bitumen compound.

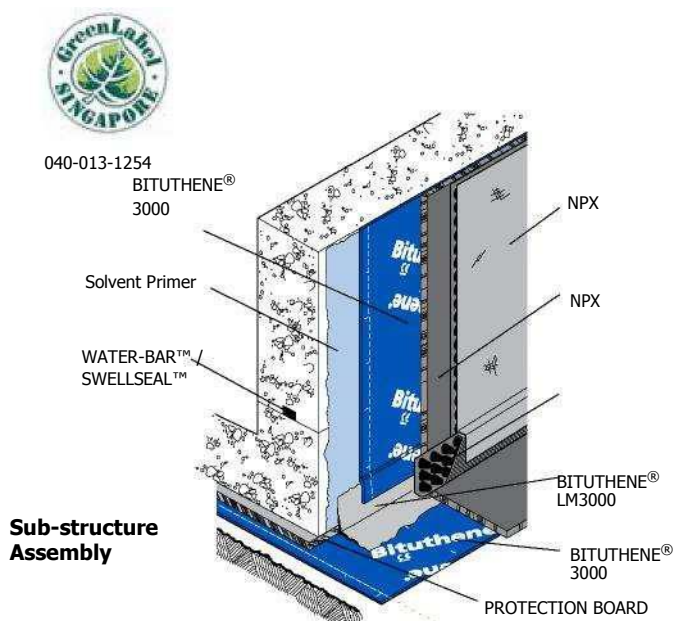
Product Advantages

- Waterproof — High hydrostatic head resistance.
- High density cross-laminated polyethylene film
 - Provides dimensional stability
 - Provides puncture resistance
- Single layer — Simple, reliable, low labour cost with the benefit of site programmed installation
- Gas Resistant — Methane, carbon dioxide and radon gas protection in excess of the standard membrane requirements in BRE Reports 211 (radon) and 212 (methane and carbon dioxide)
- Cold-applied
 - No flame hazard
 - No heating required
- Self-adhesive rubberised asphalt
 - Continuity ensured at overlaps
 - Unique rubber/bitumen formulation allows healing of small punctures
- Factory controlled thickness — No variation by site practices
- Chemically-resistant — Provides effective external protection against aggressive environments and ozone attack
- Flexible — Accommodates minor settlement and shrinkage movement
- Tanking security — Combined flexible membrane and waterstop system for security

Applications

- Basement
- Sub-structures
- Flat decks

- Roof assemblies
- Elevated or grade level podiums
- Plaza decks / Roof gardens / Terraces



Installation

Measures should be taken to ensure that all surfaces are free from ice, frost or condensation. Roof slab surfaces must be dry, and free from sharp protrusions, and any hollows to be filled with high strength mortar.

Horizontal and vertical faces must be smooth, regular, dry and free from nails. Prime the horizontal and vertical surfaces with one coat of Solvent Primer applied by brush or roller at a rate of 6-8 m² / litre depending on the porosity of the surface, and allow to dry completely before the application of BITUTHENE[®] 3000.

BITUTHENE[®] 3000 should be laid by peeling back the protective silicone release paper and applying the self-adhesive face on to the surface to ensure good initial bond.

Adjacent rolls are aligned and overlapped 50mm minimum at side and 50mm at ends, and the overlaps well rolled with a firm pressure using a lap roller to ensure complete adhesion and continuity between the layers.

Following the application and inspection, care should be taken to prevent damage by following trades. As soon as practicable after

the application, BITUTHENE® 3000 should be protected from exposure to the weather and physical damage using NPX DRAINAGE & PROTECTION BOARD.

Any punctured or damaged areas should be cleaned and patched using BITUTHENE® 3000 with minimum 50mm laps all around.

Following the application, care should be taken to prevent damage by following trades by using protection board spot bonded with BITUSTIK™ Tape Super or a 25mm screed as horizontal protection. Vertical faces to be protected against damage from backfilling and reinforcement by using NPX DRAINAGE & PROTECTION BOARD spot bonded with BITUSTIK™ Tape Super.

The junction between the slab and parapet shall have a fillet of BITUTHENE® LM3000 or other acceptable methods placed firmly into position before using 300mm wide reinforcing corner strips of BITUTHENE® 3000 placed centrally over the axis of the change of direction.

Always apply BITUTHENE® membrane directly to primed or conditioned structural substrates. Insulation, if used, must be applied over the membrane. Do not apply BITUTHENE® membranes over lightweight insulating concrete.

Application areas:

Tanking: Full waterproofing and DPM and below grade tanking (walls buried below ground). Bituthene 3000 prevents water from entering the wall or building structure from the ground.

- Under horizontal roof & floor concrete slabs. (Inter-slab waterproofing). Bituthene acts as a waterproofing membrane (very tough yet elastic) and due to its Polythene surface , it also acts as a slab separation /slip layer.
- As a combined and full waterproofing system using Bituthene 3000 on vertical walls overlapping Preprufe systems under the slab below.
- On masonry, precast or poured in-situ concrete, Polystyrene faced blocks

Features

- BRANZ appraised; No. 805 (2013 and current)
- Compliant product with E2/AS1 July 2005; section 12.0, 12.2.2.b
- Used in New Zealand for over 35 years
- Compliant with BRANZ bulletin #397, Waterproofing basements; section 5.2.2
- 50 Year durability compliant; "Life of the building" (refer BBA approval).
- BBA approval (British Board of Agreement) #97/3325; March 2000
- All joints sealed by permanent self-adhesive.
- Protected by NPX protection & drainage sheet before backfilling.
- Very high Water vapour resistance 891 MNs/g BS3177.
Permeance: less than 2 mg/m².s.Pa. ASTM E96[12]
- Bituthene 3000 is a self-adhesive sheet material supplied in a roll form. The release paper is removed and the Bituthene adheres immediately to primed concrete walls. Subsequent sheets are lapped.
- As a sheet material, it provides a consistent thickness across the wall and is not dependant on contractor application variability. Once applied, it provides immediate protection and is not affected by rain or site water.
- Use Bituthene & Preprufe waterproofing combination to provide a wall / under-slab protection system that provides complete building integrity.

Producer Statement

Bituthene 3000 complies with the requirements of the NZ building code and any relating acts. Bituthene 3000 complies with E2/AS1 and durability under B2. The conditions under B2 (50years durability for elements that are inaccessible) are accepted and complied with providing all preparation and installation is carried out by Allnex licenced contractors and all product installation details are followed.

Supply

Pack Size	1m x 20m roll (20sqm)
Gross Weight	39kg
Storage	Dry conditions below +35°C

Health and Safety

Refer to relevant Material Safety Data Sheet.

Quality Assurance

Quality Assurance is carried out by the manufacturer GCP Applied Technologies who are certified to ISO 9001: 2008 by TUV SUD PSB Pte Ltd.

Physical Properties

Property	Typical Values	Test Method
Colour	Dark Grey	NA
Nominal Thickness*	1.5mm	NA
Tensile Strength Of Membrane	4N / mm	ASTM D412 modified **
Elongation Of Membrane (To Ultimate Failure Of Rubberised Asphalt)	200%	ASTM D412 modified **
Lap Adhesion @23°C	683 N/ m	ASTM D1876
Cycling over crack @-32°C	No effect 100 cycles	ASTM C836
Puncture Resistance Of Membrane	>220N	ASTM E154
Resistance To Hydrostatic Head	60m	ASTM D5385
Tear Resistance	23N / mm	ASTM D624
Permeance	1.9na Pa. m ² . S	ASTM E96 [12]

Typical test values represent average values from samples tested. Test methods noted may be modified. * Nominal thickness refers to the thickness of the membrane without release liner.

** The test is run at a rate of 100 mm per minute.

Please consult your local Allnex representative on recommended installation temperature

Technical Services

For assistance with working drawings for projects and additional technical advice, please contact Allnex Construction Products.

Appraisal

BRANZ Appraisal No: (805) 2018



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Allnex Construction Products, a Division of Allnex New Zealand Ltd

Auckland - 14 Industry Road Penrose phone: 095836544. Hamilton - 18 Somerset Street Frankton phone: 07-847-8658
Wellington - 19A Jamaica Drive Grenada North phone: 04-240-0305. Christchurch - 112 Carlyle Street Sydenham phone: 03-366-6802
Customer Service: 0508-882-288 cs.constructionnz@allnex.com
www.allnexconstruction.com

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