Technical Data Sheet

Bituthene 3000 Elastomeric Waterproofing Sheet

Tanking and Waterproofing Membrane

Description

Bituthene 3000 is a full and permanent waterproofing and DPM (damp proof membrane) consisting of a modified bitumen sheet comprising of modified bitumen on a cross laminated polyethylene backing which is a continuous reinforcement. It is a self-adhesive sheet membrane for waterproofing below ground external walls.

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 approved; 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.

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(b) The Product has a limited shelf life and must be stored strictly in accordance with the guidelines and specifications related to it.
(c) Where the Details relate to Product tested by Nuplex, those Details are indicative only, regarding which there may be batch-to-batch variation.
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Materials for use with Bituthene 3000;
Thickness 1.5mm, Roll: roll 1m wide x 20m.

- Nuplex NPX Drainage & protection board,
- Membrane Primer 20Lt pail applied at 5m² / Lt.
- Bituthene B2 primer for priming on wet walls to allow early installation.
- RMA adhesive primer for use on Polystyrene block work (waterbased) and over sealants.
- Bituthene mastic for small detail work.
- Bituthene liquid membrane, LM3000 2-part polyurethane, for sealing around penetrations.

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 (50 years durability for elements that are inaccessible) are accepted and complied with providing all preparation and installation is carried out by Nuplex licenced contractors and all product installation details are followed.

BITUTHENE 3000 – SELF ADHESIVE SHEET BELOW GRADE TANKING

-Concrete
Check surfaces for protrusions and sharp points and grind to remove. Fill holes level with Supaset.
Prime dry surfaces with minimum 1 coat of Nuplex Primer at 5m²/ Lt. Use two coats if very porous or use a second coat if time has passed since the first coat was applied and is contaminated.

<table>
<thead>
<tr>
<th>Priming options</th>
<th>Substrates</th>
<th>Base</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nuplex membrane primer</td>
<td>concrete</td>
<td>Solvent</td>
</tr>
<tr>
<td>B2 primer</td>
<td>Concrete; damp surface concrete primer</td>
<td>solvent</td>
</tr>
<tr>
<td>RMA adhesive primer</td>
<td>Concrete, Polystyrene block, Primer over sensitive joint sealants (RMA does not react with most joint sealants). No odour applications. No solvents – non flam.</td>
<td>Waterbased</td>
</tr>
</tbody>
</table>

- Install 300mm wide Bitustrip 3000 fillets where required. - Install Bituthene mastic fillets to all internal corners.
- Install Bituthene 3000 membrane to all areas required to achieve a waterproof finish in accordance with the Grace technical data "Bituthene 3000 Foundation Protection". It is normally dropped vertically.
- Overlap subsequent sheets and heavily roll all laps with a curved lap roller. Particularly focus on the edge where an exposed edge of the backing mastic shows – “pinch” down this piece hard. Lap and roll ends if necessary.
- Bituthene is to be continuous with minimum 50mm side and end laps. Overlaps must be firmly rolled to ensure complete adhesion. Seal any “bird-months” with Bituthene mastic.
- Top edge. The top edge must be permanently fastened so that it does not fall-away. Mechanical fastening is preferred. Seal the top edge and all end laps using Bituthene Mastic or LM 3000.
  Options for the top edge include: 1.0 Affixing the top-edge with Bituthene mastic and a mechanically fastened metal bar or strapping strip. 2.0 Cutting a chase into the concrete and taking the Bituthene in to this and sealing with mastic.

- Seal all penetrations using Bituthene LM 3000 2-part urethane mastic.
- Install protection board Nuplex NPX protection/drainage sheet prior to backfilling. - Back fill as required.
- Protect exposed Bituthene 3000 from UV using Nuplex metal flashing tape (self adhesive), or other suitable protection. The Bituthene 3000 exposed area is difficult to coat. Nuplex Cural Aluminium finish may be used. This may be subsequently coated with acrylic coatings.

Note the following:
Nuplex recommend Licensed Nuplex Contractors who are members of The Nuplex Contractors Federation; lists are provided from Nuplex.
Install minimum 100 mm dia drain with openings to collect water at the base of the wall.
Drain is to be placed 200mm below the interior basement floor level. Drain must have minimum 1:200 fall to the outlet. Outlet must have access for cleaning the drain.

Top of the Bituthene is to extend a minimum 150mm above ground level and terminate correctly, as described above. Base of Bituthene must extend a minimum of 200mm below interior basement floor level and seal with floor DPM. Check Bituthene membrane for faults or damage prior to installation of protection board or drainage sheet. Ensure finished ground surface falls away from the membrane a minimum 1:30 to divert ground water.
## Bituthene 3000 - for Tanking & Waterproofing

<table>
<thead>
<tr>
<th>Features</th>
<th>Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flexible</td>
<td>Very flexible, very difficult to rip. Elongation 300%. (Compare to torch-on membranes @ 50%). Accommodates settlement and shrinkage movement.</td>
</tr>
<tr>
<td>Site suitable.</td>
<td>Will apply to damp concrete. It is not affected by site water. Once applied, it is not water sensitive</td>
</tr>
<tr>
<td>Flexible / Elastomeric</td>
<td>Has very high elongation and will bridge developing cracks</td>
</tr>
<tr>
<td>Self adhesive</td>
<td>Easy to apply, no special equipment necessary or dangerous flames in enclosed spaces. Full continuity at overlaps.</td>
</tr>
<tr>
<td>Bonds to substrate</td>
<td>Bonds tenaciously, water cannot migrate along bond line. Bond improves with time</td>
</tr>
<tr>
<td>Hard surface</td>
<td>The polyethylene surface is hard to penetrate (Puncture resistance is 250N). Cross laminated film. Accepts foot traffic during construction.</td>
</tr>
<tr>
<td>Self healing</td>
<td>The sticky inner layer and base will self heal around any tears or penetrations. This improves with time and pressure.</td>
</tr>
<tr>
<td>Polyethylene Surface</td>
<td>This hard surface is not readily bonded onto. This provides a built in slip layer to overlays of tile mortars or concrete.</td>
</tr>
<tr>
<td>1.5mm thick</td>
<td>Laps heights are only 3mm compared to torch-on 6-10 mm. Factory made sheet ensures constant, non-variable site application.</td>
</tr>
<tr>
<td>Consistent Thickness</td>
<td>Superior to liquid waterproofing membranes as a consistent thickness must be applied by the contractor. This is far superior to liquid bitumen waterproofings that are often applied too thinly or in insufficient coats.</td>
</tr>
<tr>
<td>Compatible</td>
<td><strong>Full below grade system:</strong> Will tie into under floor layer of Preprufe 160. It has a full range of complementary primers, mastics and penetration sealants.</td>
</tr>
<tr>
<td>Chemically resistant</td>
<td>Provides external protection against aggressive soils and ground water.</td>
</tr>
<tr>
<td>Good Coverage</td>
<td>Roll size is 20m x 1m; quick to lay. Fewer seams or laps per roll</td>
</tr>
<tr>
<td>Strong laps</td>
<td>Side and end laps are almost impossible to separate.</td>
</tr>
</tbody>
</table>
Bituthene 3000
Below grade waterproofing

Termination bar and drainage sheet finishing strip in one unit.

Naplok bar mechanically fastened through the Bituthene 3000 and hammered down over the NPX sheet.

NPX Drainage Sheet over Bituthene 3000
Sheet Tanking & waterproofing.

Preprufe used to protect footing area only

Please note that Nuplex take no responsibility for the Polythene component. Nuplex recommend Preprufe fully under the slab.

Bituthene Upper termination Option 6

Coating
Large metal overflash with fasteners

Metal coverstrip (Nuplex New trim or ripple bar) with 25mm concrete nail

Protection sheet Nuplex NPX

In this detail the Bituthene, coverstrip and NPX protection sheet are all protected and held together by a metal overflash.
Below Grade Tanking
Preprufe under the slab & Bituthene 3000 on vertical wall overlapping

Red: Membrane Primer
Black: Bituthene 3000
Grey: Protection, NPX

Green: Preprufe active bonding Layer
Black: Preprufe
Brown: Site concrete or Basecoarse
Bituthene® 3000/3000 HC
High performance waterproofing membrane for sub-structures and flat deck applications

Product Description
Bituthene® 3000/3000 HC 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

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 Bituthene Primer applied by brush or roller at a rate of 6-8 sq m per litre depending on the porosity of the surface, and allow to dry completely before the application of Bituthene 3000/3000 HC.

Bituthene 3000/3000 HC 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 3000/3000 HC should be protected from exposure to the weather and physical damage using Bituthene protection boards, insulation or Hydroduct® drainage composites laid dry.

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

Following the application, care should be taken to prevent damage by following trades by using Bituthene protection boards spot bonded with Pak Adhesive or a 25mm screed as horizontal protection. Vertical faces to be protected against damage from backfilling and reinforcement by using Bituthene protection boards spot bonded with Pak Adhesive.

For usage in China mainland, please follow China GB code requirement for lapping. For more details, please contact your local GCP representative.

The junction between the slab and parapet shall have a fillet of Bituthene Liquid Membrane or other acceptable methods placed firmly into position before using 300mm wide reinforcing corner strips of Bituthene 3000/3000 HC 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.

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Health and Safety
Refer to relevant Material Safety Data Sheet.

Quality Assurance
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Technical Services
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Physical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Typical Values</th>
<th>Test Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour</td>
<td>Dark Grey</td>
<td>NA</td>
</tr>
<tr>
<td>Nominal Thickness*</td>
<td>1.5mm</td>
<td>NA</td>
</tr>
<tr>
<td>Tensile Strength Of Membrane</td>
<td>4N / mm</td>
<td>ASTM D412 modified **</td>
</tr>
<tr>
<td>Elongation Of Membrane (To Ultimate Failure Of Rubberised Asphalt)</td>
<td>200%</td>
<td>ASTM D412 modified **</td>
</tr>
<tr>
<td>Lap Adhesion @23°C</td>
<td>683 N / m</td>
<td>ASTM D1876</td>
</tr>
<tr>
<td>Cycling over crack @-32°C</td>
<td>No effect 100 cycles</td>
<td>ASTM C836</td>
</tr>
<tr>
<td>Puncture Resistance Of Membrane</td>
<td>&gt;220N</td>
<td>ASTM E154</td>
</tr>
<tr>
<td>Resistance To Hydrostatic Head</td>
<td>60m</td>
<td>ASTM D5385</td>
</tr>
<tr>
<td>Tear Resistance</td>
<td>23N / mm</td>
<td>ASTM D624</td>
</tr>
<tr>
<td>Permeance</td>
<td>1.9na Pa. m². S</td>
<td>ASTM E96 [12]</td>
</tr>
</tbody>
</table>

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 GCP representative on recommended installation temperature.

Supply

<table>
<thead>
<tr>
<th>Pack Size</th>
<th>1m x 20m roll (20sqm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gross Weight</td>
<td>39kg</td>
</tr>
<tr>
<td>Storage</td>
<td>Dry conditions below +35°C</td>
</tr>
</tbody>
</table>

Typical Values Test Method

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

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Tunnel cover or earth sheltered structure

Open Cut wall - Pipe penetration

Plaza deck - tie-in of waterproofing

Nuplex waterproofing details www.nuplexconstruction.co.nz
Above ground termination options:
1 Heavy duty
2 Medium duty
3 Residential / light duty.

Choose the option that suits your appearance and performance requirements.
Standard Bituthene Installation

Connecting Slab & Wall Waterproofing

Connecting Slab, Walls and Deck. Nuplex waterproofing Systems

Bituthene 3000. Note #1

The critical end slab is fully waterproofed

Note #1: A metal termination bar fixes the deck membrane over the upper Bituthene 3000 section.

Note #2: Options
1.0 Double layer soprassun Torch-on; non-trafficed or with pedestals and decking.
2.0 Double layer Bituthene 3000. As above or under another concrete slab.
3.0 Bituthene 5000 with 50mm of compacted asphalt. This is for car traffic.