



**Sealco**  
Waterproofing Systems

## BituBOND Peel & Stick



TANKSEAL Peel & Stick Tanking Membrane

## PRODUCT DESCRIPTION

BituBOND® is a self-adhesive SBS modified bitumen damp-proof membrane (DPM) designed to protect concrete foundations and vertical walls from aggressive soil attack, dampness and vapour transmission.

BituBOND® is a flexible laminated sheet, comprised of a multi-layer high density cross laminated polyethylene film with a backing of self-adhesive rubber modified bitumen, protected with a silicon coated release film.

### WHY BITUBOND®

The BituBOND® membrane has extensive usage and a proven reputation in waterproofing. bituBOND® has excellent puncture resistance and adhesion properties.

BituBOND® is one of the few self-adhesive membranes that comes with a selvedge edge protected by a release paper. This paper ensures the lap area is kept perfectly clean to give an intimate bitumen-to-bitumen seal at the lap.



bituBOND Installed

### IN PARTICULAR, BITUBOND®

- Has excellent self-adhesive qualities.
- Is tear and puncture resistant.
- Is easy to apply.
- Has protected lap selvedge.
- Is BRANZ Appraised,

### AREAS OF USE

BituBOND® is an ideal membrane for damp-proofing foundations, walls, bridges, viaducts and tunnels. BituBOND® can be used on both concrete and polystyrene substrates. It is also recommended for use under composite shingles and roof tiles.

BituBOND® can also be used where a concrete topping is applied. Contact WPS for technical details.

### BITUBOND® MATERIAL SPECIFICATIONS

Membrane Thickness	1.6mm
Roll Width	1m
Roll Length	20m
Carrier	cross laminated polyethylene
Softening Point (ASTM D-36)	95°C
Cold Flexibility (UEA tc 31)	-25°C
Water Absorption (ASTM D570)	0.14% after 24 hours 0.16% after 35 days
Water Vapour Transmission (ASTM E96:95)	less than 0.2g/hr/m <sup>2</sup>
Tensile Strength (ASTM D882:97)	40N/mm <sup>2</sup>
Elongation (ASTM D882:97)	490%
Puncture Resistance (ASTM E154:99)	370N
Adhesion Strength (ASTM 1000:93)	55N/25mm

### PRODUCT LIMITATION

BituBOND®, as with any self-adhesive membrane, should not be used for high hydrostatic pressures.

When tanking under higher hydrostatic situations, the BituFLAME® torch-on system should be used. Higher hydrostatic pressures are normally present in deep site excavations near known water sources such as ponds, lagoons, rivers, lakes, and springs and in coastal regions.

### DURABILITY

When fixed according to specification, the BituBOND® system will meet the NZBC B2.3.1(a) requirements of 50 year durability.

The durability opinion given by BRANZ for the bituBOND® system states that when installed and maintained in accordance with the certificate, the system is expected to have a service life of at least 50 years, provided it is protected from sunlight and UV radiation.

### BRANZ APPRAISED

The BituBOND® system is BRANZ appraised.

Please contact Sealco Waterproofing Systems Limited for a copy of these certificates. Certificates are also available for download from our website

[www.sealco.co.nz](http://www.sealco.co.nz)



Full system specifications, drawings & installation information can be viewed and downloaded from the TankSEAL page on our website:

[www.sealco.co.nz](http://www.sealco.co.nz)

## INSTALLING BITUBOND®

Pre-cut the required quantity of bituBOND® to length and lay out close to the installation area. This will allow the bituBOND® to relax. Do not install bituBOND® when temperatures are below 5°C.

Pull the release paper back approximately 200mm and apply one of the top corners to the substrate. Plumb the bituBOND® and rub across the top edge sticking the bituBOND® to the substrate.

Carefully pull the release paper downwards rubbing the bituBOND® into place, continuing until the bituBOND® drop is completely installed. Roll or broom over the bituBOND® surface to ensure good contact with the substrate. Ensure there are no creases.

Remove the selvedge release paper on the bituBOND® just installed, to get ready for the next sheet. Install the next sheet by removing 200mm of the release paper and place on the exposed selvedge. Use the selvedge as a guide to ensure subsequent sheets are plumb. Over-roll with the lap area with a hand roller to ensure a good seal.

BituBOND® must be fully bonded onto the concrete with 100mm side laps and 150mm end laps, and seamed by a roller. Make sure that foreign matter does not contaminate these laps.

Use a hot air gun to seal and patch any cuts, and if required to seal any creases, or when installing in very cold conditions.



BituBOND installed under tiles

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## System Components

### BITUPRIME PRIMER

A solvent-based, fast-drying bituminous primer designed to penetrate concrete surfaces and provide a bondable surface. BituPRIME® is available in a 20ltr metal pail.

### BITUBOND PRIMER

Water-based pressure-sensitive bitumen adhesive for use on polystyrene substrates, or when installing onto concrete or block substrates in cold conditions. bituBOND® is supplied in a 20ltr plastic pail.

### BITUBOND® TANKSEAL MEMBRANE

A self-adhesive elastomeric bitumen membrane with high adhesive properties. BituBOND® has a black finish on the top side with a polyethylene foil, and has a siliconized release paper backing on the bottom side and along the lap edge.

- Nominal thickness: 1.6mm.
- Nominal roll size: 1m x 20m.

### SEPARATION LAYERS

Polyethylene film at least 150 microns thick.

### PROTECTION BOARDS

Protection boards must be a minimum of 3mm thick core flute over lapped 50mm sheet joints and seal taped.

### BACKFILLING MATERIALS

Includes a granular, free-draining sand or natural soil, free from stones larger than 30mm in size. The back fall material is capped with impervious clay.

### EXPANSION JOINTS

The expansion joint covering must be custom-designed to meet the specific stresses expected, and be compatible with bituBOND® self-adhesive membranes.

### RAWSEAL WATERSTOPS

A high density sodium bentonite water stop. Installed into preformed rebates within the concrete joint, or nailed/glued into position. RawSEAL is available in 20mm x 25mm

### BITUMEN SEALANT

A single component sealant based on bitumen and rubber. Cures to a plastic-elastic seal by evaporation of the solvents.

### BITUPROTECT PROTECTION BOARDS

#### DESCRIPTION

BITUMAT BITUPROTECT is a high strength, indentation and impact resistant panel, fabricated from mineral reinforced bitumen formed between two layers of dimensionally stable bitumen saturated glass mat, hot fused and pressed during the manufacturing process to form a semi rigid panel with thin black finish Polyethylene film on both sides.

#### USES

BITUPROTECT is a universal protection panel used to protect the waterproofing systems from damage during construction activities and backfilling. It can also be used as a protection panel or, as a walk pad over exposed roofs or around mechanical equipment installed on roofs.

BITUPROTECT with its high resistance to puncture and impact becomes an ideal protection to the membrane against sharp aggregate and other alien matter that comes along with the backfill. It even provides protection against unintentional physical abuse caused by other tradesmen.

#### OUTSTANDING FEATURES

- Semi flexible but tough, can withstand normal soil or structural movements.
- Water resistant, withstands wet soil conditions.
- Absorbs the impact of aggregates.
- Withstand foot traffic.
- Protects the waterproofing membrane from penetration of sharp edges of steel reinforcement.

#### BITUMINOUS PROTECTION BOARD

- Compatible with most waterproofing systems, especially the bituminous systems.
- Much more durable than fibre boards which soften in due course of time.
- Easy to install.
- Salt chemical resistant

#### GENERAL DATA

Nominal Weight : 4 to 8 kg per M2 Nominal Thickness : 3, 4 & 6MM Nominal Board Size : 1.0m x 2.0m.



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