

Cross Laminated Self Adhesive Membrane

• DESCRIPTION

Bitustick XL waterproofing membrane is a composite of an impervious, cold applied flexible laminated sheet consisting of a tropical grade, non-perforated, high density, cross laminated polyethylene film with a backing of self-adhesive rubber compound protected with a silicone coated release film.

• USES

Bitustick XL membrane is generally used as water proofing or damp proofing for concrete protection. It may be used for horizontal and vertical application and as a damp proof course for tanking below ground structures, subways and retaining walls.

• ADVANTAGES

- Cold applied, self-adhesive and easy to apply.
- Excellent adhesion to vertical and horizontal surfaces.
- Improved heat resistance.
- Excellent resistance to chlorides, sulphates, alkalis and acids.
- Excellent tear and tensile strength in both longitudinal and transverse direction.
- Water and vapour proof.

• APPLICATION INSTRUCTIONS

Surface preparation

A smooth, regular and dry surface is always a must for good application. The substrate should be completely free of any protrusions or cavities. The presence of oily substances, frost or other moisture should be completely avoided. Apply **Polyprime SB** at a rate of 4-6m²/lt. as a primer coat. The primer coat should be touch dry before the application of the membrane.

Application

The application temperature should be between 4°C to 45°C. The installation procedures are to be as follows:

1. Unroll only the required length, and cut the piece to the desired shape and size.
2. Place the pieces of membrane on the area to be covered, and check whether they match with the profile of the marked substrate.
3. Peel off the release film and carefully place the membrane so as to ensure a minimum of 50 mm overlap and then smoothen the membrane from the centre to the edges in order to drive out entrapped air.
4. Place **Bituboard** protection sheets on top of the membrane soon after the application in order to prevent any damage from exposure to sunlight, backfilling and mechanical damage.

• HANDLING

Bitustick XL membranes are supplied in rolls of 1 m in width and lengths of 10 m. The rolls are packed individually in corrugated boxes to avoid any damage during transit or on site. The membranes can be unloaded by hand or any other convenient means, but ensure the absence of any sharp or protruding edges within close proximity to avoid puncturing the membrane.

• STORAGE

Bitustick XL membranes must be stored in a shaded area on wooden pallets neatly covered by a thick fabric and tied securely in a manner that will minimize exposure to sunlight.

• DISPOSAL

Bitustick XL is a non-hazardous, non-flammable material and therefore can be disposed of in any regular disposal area. It should be disposed of only after wrapping with paper, plastic or cloth as the modified material has a tendency to soften under heat and pressure, which would make further handling very difficult.

• HEALTH AND SAFETY

Bitustick XL contains a tacky bitumen compound and during application can adhere to human skin. Bitumen stains can be removed by using a cloth dipped in a light solvent. In case the affected area is sensitive, like the eye, please contact a medical practitioner for advice.

TECHNICAL DATA
Bitustick XL

PROPERTIES	VALUES	TEST METHOD
Roll length	10 m	UEAtc
Roll width	1 m	UEAtc
Membranethickness	1.6, 2.1 mm	UEAtc
Thickness SBS compound	1.5, 2.0 mm	UEAtc
Thickness HDPE film	0.10 mm	UEAtc
Colour	Black	
Softening point (R&B)	110°C	ASTM D 36
Elongation (Compound)	1500%	ASTM D 412
Tensile Strength (Film)	Long 38 N/mm ² Trans 38 N/mm ²	ASTM D 882
Tensile Strength (Membrane)	Long 3.8 N/mm Trans 3.8 N/mm	ASTM D 638
Tear Resistance	Long 280 N/mm Trans 280N/mm	ASTM D 1004
Elongation, (membrane) %	Long 230 % Trans 180 %	ASTM D 638
Adhesion Strength, N/mm Primed Substrate Self	2.2 N/mm 3.4 N/mm	ASTM D 1000 ASTM D 1000
Puncture Resistance (Membrane)	220N	ASTM E 154
WaterAbsorption	After 24 Hrs 0.14% After 35 days 0.16 %	ASTM D 570
Environmental Resistance	Conforms	ASTM D 543
Cold Temperature Flexibility	-15°C	UEAtc
Crack Bridging Ability	1 mm	ASTM C 836
Water Penetration Membrane Film	Pass Pass	BS EN 12390

The technical parameters have been designed to be in compliance with the British Standard BS 8102:1990. All values given are subject to a 5-10% tolerance.

Last revised May 2008



The information given in this data sheet is based on our current knowledge of the product when properly stored, handled and applied. We cannot guarantee that the product will be suitable, effective or safe when used for any purpose other than its stated uses.
To the extent that it is lawful, we exclude warranties implied by law and limit our liability to the cost of replacing the product. We accept no responsibility for loss or injury caused by improper use, incompetent preparation, inexpert or negligent application, or ordinary wear and tear.
Service or advice given by our staff should not amount to responsibility for the project - since the owner, or their contractor is responsible for procedures relating to the application of the product.

Distributed by



A Division of River Sands Pty Ltd

683 Beenleigh-Redland Bay Rd, Carbrook, Qld 4130 > Ph (07) 3287 6444 > Fax (07) 3287 6445
Sydney > Ph (02) 9677 1056 > Fax (02) 9677 1352
Melbourne > Ph (03) 9311 9225 > Fax (03) 9311 9445
Perth > Ph 0423 023 164
Toll Free > 1800 077 744 > Email acs@riversands.com.au > www.appliedconcretesolutions.com.au