

Bitustick 1000

Bituminous self adhesive waterproofing membrane

1 mm thick preformed self adhesive modified bituminous membrane specifically designed for waterproofing and damp proofing of below ground concrete structures.

CHARACTERISTICS

- ▶ Preformed thickness. Ensures application of a minimum and uniform thick membrane.
- ▶ Easy and fast application. Same day screeding or backfilling.
- ▶ Seamless adhesion on overlaps.
- ▶ Resistant to chlorides, sulphates, dilute alkalis and acids.
- ▶ Good crack bridging ability.
- ▶ Good tear and puncture resistance.
- ▶ Good resistance to hydrostatic pressure.
- ▶ Effective sealing of pin holes & blow holes.



DESCRIPTION

Bitustick 1000 is a 1 mm thick preformed self adhesive modified bituminous membrane specifically designed for waterproofing and damp proofing of below ground concrete structures where the ground water table is low. Bitustick 1000 conforms to the requirements of BS 8102.

FIELDS OF APPLICATION

- footings & foundations of villas and shallow rafts
- retaining walls
- manholes

APPLICATION INSTRUCTIONS

Application procedures may vary slightly depending upon site conditions. The general recommended guidelines for the application of the self adhesive waterproofing system are as follows:

Surface preparation

The surface shall be cleaned thoroughly of all contaminants like dust, traces of curing compound, oil and grease. All surface imperfections and protrusions are to be removed and repaired.

Priming

Apply Polyprime SB* (Solvent based primer) @ 4-6 m²/L to a clean smooth and dry surface by brush, roller or spray. Allow the primer to dry prior to the application of the membrane.



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Alignment

Start the installation of all membrane plies from the low point or drains, so that the flow of water is over or parallel to the plies, but never against the laps. All overlaps at the membrane seams shall be installed so as to have “up” slope laps over “down” slope laps. Begin membrane application by unrolling the roll of Bitustick 1000 membrane and aligning the side laps. Re-roll the roll halfway and stand on the unrolled portion to prevent shifting.

Application

Peel off the release film from the self adhesive side and start unrolling the membrane and press it to the surface. Smoothen out the membrane from the center to the edges in order to drive out entrapped air with a wooden press. Furthermore, an iron roller shall be used for rolling on top of the applied membrane to ensure a proper and strong adhesion of the bitumen compound with base surface. Side overlaps shall be a minimum of 50mm on the selvedge and end overlaps 100mm.

Protection

Though the membrane has good impact, puncture and abrasion resistance, for areas where there are high concentration of coarse and sharp backfill aggregates, it

is highly recommended to protect the membrane with a tough, weather, warp and rot proof asphaltic protection board (Bituboard*).

Bituboard can be fixed with a double sided adhesive bitumen tape (Watertite TS 15). Alternatively a 1000 gauge polyethylene sheet can be used for protecting the membrane.

STORAGE

Bitustick 1000 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.

The membranes at site should not be kept within close proximity of any sharp or protruding edges to avoid puncturing or damaging the membrane.

HEALTH AND SAFETY

Bitustick 1000 contains a tacky bitumen compound and during application can stick to human skin. Bitumen stains can be removed by using a cloth dipped in a suitable cleaner. In case the affected area is sensitive, like the eye, please seek medical advice.

SUPPLY

Bitustick 1000	1m x 15mx1.2mm	21.0 kg#
Polyprime SB	20L & 200L	
Bituboard	3.2 mm	2m x 1m, wt 7.7kg#
	6.0 mm	2m x 1m, wt 14.0kg#
Watertite TS 15	50mm x 10m, wt 0.6kg#	
Wooden press	140mm x 210mm	
Iron Roller (recommended specification)	Head dia	38mm, wt 1.5kg#
	Width	100mm
	Length	350mm

Approximate weight

TECHNICAL SPECIFICATION

PROPERTIES	VALUES	TEST STANDARDS
Thickness, [mm]	1, 1.2mm	-
Mass per unit area, [kg/m ²]	1.1	-
Top surfacing	PE film	-
Softening Point [R&B], [°C]	100	-
Tensile strength, [N/mm ²] membrane film	≥1 ≥20	ASTM D 882
Elongation at break, [%]	>500	ASTM D 882
Adhesion strength, [N/mm]	>0.5	ASTM D 1000
Puncture resistance, [N]	>30	ASTM B 154
Hydrostatic water pressure @3bar	Nil	BS EN 12390
Water vapor transmission, [g/m ² /24 hrs]	<0.1	ASTM B 96
Resistance against chloride and sulphate ions	Resistant	ASTM D 543
Low temperature flexibility, [°C]	≤-15	ASTM D 5147
Crack bridging ability, [mm]	>1	ASTM C 836
Application temperature, [°C]	+5 to +55	-
Service temperature, [°C]	+4 to +80	-
VOC [g/L]	<50	ASTM D3960/ D2369

All values given are subject to 5-10% variation

Apart from the information given here it is also important to observe the relevant guidelines and regulations of various organisations and trade associations as well as the respective standards. The aforementioned characteristics are based on practical experience and applied testing. Warranted properties and possible uses which go beyond those warranted in this information sheet require our written confirmation. All data given was obtained at an ambient and material temperature of +23°C and 50 % relative air humidity at laboratory conditions unless specified otherwise. Please note that under other climatic conditions hardening can be accelerated or delayed.

The information contained herein, particularly recommendations for the handling and use of our products, is based on our professional experience. As materials and conditions may vary with each intended application, and thus are beyond our sphere of influence, we strongly recommend that in each case sufficient tests are conducted to check the suitability of our products for their intended use. Legal liability cannot be accepted on the basis of the contents of this data sheet or any verbal advice given, unless there is a case of wilful misconduct or gross negligence on our part. This technical data sheet supersedes all previous editions relevant to this product.