

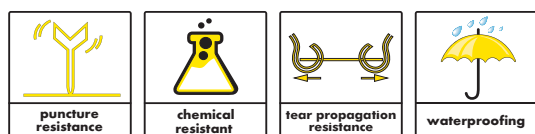
Bitustick R 300

Geo-textile fleece surfaced protection membrane

Polymer modified bituminous self adhesive waterproofing and protection membrane

CHARACTERISTICS

- High resistance to puncture
- Good resistance to tear propagation
- Resistant to UV degradation
- Good chemical resistance
- Easy to apply. Cold applied
- Completely non bio-degradable



DESCRIPTION

Bitustick R 300 is a bituminous self adhesive membrane laminated onto a tough geo-textile fleece. The membrane is specially designed to provide a high level of protection for waterproofing membranes applied on underground concrete structures against mechanical loads and pressure. Bitustick R 300 conforms to the requirements of BS 8102

FIELDS OF APPLICATION

Used as a protection membrane for applied waterproofing membrane or coating in the following areas:

- Basements
- Footings & raft foundations
- Tunnels & underpasses
- Manholes
- Water retaining structures

APPLICATION INSTRUCTIONS

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

Protection System:

Surface preparation

Clean the underlying surface thoroughly to remove all settled dust.

Application

Unroll only the required length and cut the piece to the desired shape. Place the membrane piece on the area to



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be covered and check whether they match with the profile of the marked substrate. Peel off the release film and carefully place the membrane with 50 mm overlap on the selvages alone. The membrane shall be butt jointed at the ends using Bitutape TS as the underlayment to provide a watertight seal.

Surface preparation

The surface shall be cleaned thoroughly of all contaminants like dust, traces of curing compound, oil and grease. All surface imperfections, protrusions, structurally unsound and friable concrete must be removed and repaired with a suitable Polycrete* concrete repair mortar.

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. As the viscosity of the primer is low, it easily penetrates into the concrete pores which promotes the adhesion between the membrane and the concrete surface. In addition to that the primer also acts as a binder for the dust particles which gets accumulated on the concrete surface even after cleaning.

Alignment

Start the installation of all membrane plies from the low point or drains, so 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 R 300 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 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. A 50mm selvage is provided on one side of the membrane to give a bitumen-to-bitumen contact on the overlaps. But the end overlaps will be butt jointed as the bitumen will not adhere to the polyester geo textile fleece. To provide a watertight seal and restrict any water penetration through these butt joints, a minimum 200mm wide strip of a double sided bitumen adhesive membrane (Bitutape TS)* shall be laid on that area prior to the application of the membrane. Once the bitumen strip is put in place, remove the silicone release film from the top and expose the self adhesive bitumen. The Bitustick R 300 membrane will then be applied on top of the exposed Bitutape TS overlapping by 100mm. The subsequent membrane will then be overlapped with the other 100mm of Bitutape TS.

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HANDLING

Bitustick R 300 are supplied in rolls of 1m x 10m. The rolls are packed in loose boxes to avoid any damage during transit or at site. Care should be taken when storing the membranes on sites and should not be kept within close proximity of any sharp or protruding edges to avoid puncturing or damaging the membrane.

STORAGE & SHELF LIFE

Bitustick R 300 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 and UV. The membranes shall be protected from all sources of heat and extreme temperatures. The shelf life is 12 months if stored as per recommendations. Excessive exposure to sunlight, UV and other sources of heat will result in considerable deterioration of the product and reduce its shelf life.

HEALTH & SAFETY

Bitustick R 300 contains a tacky bitumen compound which, while applied can stick to human skin. Such stains can be removed by using a cloth dipped in a suitable cleaner.

SUPPLY

Bitustick R 300	1m x 10m, wt 27 kg#
Polyprime SB	20L pail & 200L drum
Bitutape TS	200mm x 10m, wt 2.4 kg#
Wooden press	140mm x 210mm
Iron Roller Small (recommended specification)	large Head Dia 38mm, wt 1.5 kg# width 100mm length 350mm
large	head Dia 38mm, wt 3.5 kg# Width 300mm length 420mm

Approximate Weight

TECHNICAL SPECIFICATION

PROPERTIES	VALUES	TEST STANDARDS
Thickness	2.7mm	DIN EN 1849-1
Top surfacing	280 g/m ² Geo-textile	-
Mass per unit area, [kg/m ²]	2.70	DIN EN 1849-1
Softening point	>105°C	ASTM D-36
Tensile strength L/T, [N/5cm]	900/650	DIN EN 12311-1
Elongation L/T, [%]	50/60	DIN EN 12311-1
Puncture resistance [N]	>1000	ASTM E 154
Tear strength L/T, [N]	600/450	ASTM D 5147
Adhesion strength, [N/mm]		
To primed surface	1.8	ASTM D 1000
Hydrostatic water pressure @5 bar [50m]	No leakage	BS EN 12390 (part 8)
Chemical resistance [pH]	2.5-11.5	ASTM D 543
UV resistance	Excellent	ASTM G 154
VOC(g/l)	<50	ASTM D 3960/ D 2369

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.

