

Bifusfick R 3

Cross laminated waterproofing membrane

Polyester reinforced high performance self-adhesive bituminous waterproofing membrane

CHARACTERISTICS

- ► Excellent puncture resistance and mechanical properties.
- ► Cold applied self adhesive and easy to apply.
- Excellent adhesion to vertical and horizontal surfaces. Improved heat resistance.
- Excellent resistance to aggressive soil conditions, ground water / salts and contaminated water.
- Excellent tear and tensile strength in both longitudinal and transverse directions.
- Water and vapor proof.









DESCRIPTION

Bitustick R 3000 is a high performance self adhesive bituminous waterproofing membrane strengthened with a central core of heavy-duty, non woven polyester fabric with outstanding physical/mechanical characteristics and high puncture resistance laminated onto a top surfacing high density, cross laminated polyethylene film (for excellent dimensional stability and high tensile/tear resistance). The self adhesive side is a SBS modified bitumen compound which is protected with a silicon coated release film. A selvedge is provided on one side of the membrane to give a bitumen to bitumen contact on the overlaps. Bitustick R3000 conforms to the requirements of BS 8102.

FIELDS OF APPLICATION

Bitustick R 3000 membranes are predominantly used as waterproofing or damproofing membranes intended for concrete protection. It may be used for horizontal or vertical applications, and as a damproof course for tanking below ground structures, subways and retaining walls.

APPLICATION INSTRUCTIONS

Surface preparation

As with any waterproofing membranes, proper application is of paramount importance to obtain optimum product performance. 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



TDS_Bitustick R 3000_GCC_0420

of oily materials, frost, dampness, moisture and any other contaminants should be completely removed.

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 which gets accumulated on the concrete surface even after cleaning.

Application

- 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 release film and carefully place the membrane so as to ensure a minimum of 75mm overlap and then smoothen the membrane from the centre to the edges in order to drive out entrapped air.

Quality for Professionals

4. In case the concrete structure is at a greater depth or is going to be exposed to site conditions / weather for a long period, place Bituboard asphaltic protection board on top of the membrane soon after the application in order to prevent any damage to the membrane.

HANDLING

Bitustick R 3000 membranes are supplied in rolls of width 1m and lengths of 8m (3mm thick) and 10m (2mm thick) and are packed in loose corrugated boxes to avoid any damage during transit or at site. The membranes can be unloaded by hand or any other convenient means but ensure that there are no sharp or protruding edges within close proximity to avoid puncturing the membrane.

STORAGE & SHELF LIFE

Bitustick R 3000 range of membranes must be stored in a shaded area on wooden pallets, neatly covered by thick fabric and tied securely in a manner that will ensure there is no excessive exposure to sunlight. Do not stack pallets one above the other. The shelf life is 12 months if stored as per recommendations.

DISPOSAL

Bitustick R 3000 is non-hazardous, non-flammable material and therefore can be disposed of in any regular disposal area. Bitustick R 3000 should be disposed of only after wrapping with paper, plastic or cloth as the modified material has tendency to soften under heat and pressure, which would make further handling very difficult.

HEALTH AND SAFETY

Bitustick R 3000 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

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 $\pm 23^{\circ}\mathrm{C}$ 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.

solvent. In case the affected area is sensitive, like the eye, please contact the company physician for advice.

TECHNICAL PI	ROPERTIES	
PROPERTIES	VALUES	TEST STANDARD
Thickness, [mm]	2.0 3.0	DIN EN 1849-1
Roll Size, [m]	1 x 10 1 x 8	
Backing Film	Cross laminated HDPE Film	-
Backing film thickness, [mm]	0.09-0.10	-
Reinforcement	150 g/m² Spun bond polyester	DIN EN 1849-1
Softening point [R&B], [°C]	>105	ASTM D 36
Tensile Strength [Film], [N/mm²] Longitudinal Transverse	55 44	ASTM D 412
Elongation [Film], [%]	300	ASTM D 638
Elongation [Compound], [%]	>1500	ASTM D 412
Tear resistance [Film], [N/mm], [L/T]	>300	ASTM D 1004
Tear resistance [membrane], [N] Longitudinal Transverse	>250 >200	ASTM D 5147
Adhesion strength, [N/mm] To primed concrete To self	1.8 2.0	ASTM D 1000
Puncture resistance, [N]	>700	ASTM E 154
Hydrostatic pressure @ 7 bar	e No leakage	ASTM D 5385
Water absorption [Film], [%]	< 0.15	ASTM D 570
Chemical resistance, [pH]	2.5 - 11.5	ASTM D 543
VOC [g/l]	<50	ASTM D 3960/ D 2369
All values give are subject to 5-10% tolerance		

All values give are subject to 5-10% tolerance

