

Bitustick AL

Aluminum surfaced solar reflective waterproofing membrane

Polymer modified bituminous self adhesive waterproofing membrane

CHARACTERISTICS

- ▶ Good resistance to water & vapor
- ▶ Aluminum surfacing, Excellent solar reflectance
- ▶ Specially formulated for tropical climates
- ▶ Self adhesive. Requires peeling off of the silicone film and sticking to the surface
- ▶ Excellent adhesion to vertical and horizontal surfaces
- ▶ Good tear and puncture resistance
- ▶ Excellent tensile strength in both longitudinal and transverse direction



DESCRIPTION

Bitustick AL is a tropical grade polymer modified bituminous self adhesive waterproofing membrane. The bitumen compound is laminated onto an impervious, non-perforated, cross laminated solar reflective aluminum surfaced HDPE film.

FIELDS OF APPLICATION

BITUSTICK AL is a multi purpose waterproofing membrane which may be used for mobile homes, small commercial roofs, residential porches and dormers, farm buildings, roof and gutter patching and on profile sheets. It can also be used as a flashing on up-stands.

APPLICATION INSTRUCTIONS

The application temperature should be between 5°C to 55°C. Application procedures may vary slightly depending upon site conditions. The general recommended guidelines for the application of the self adhesive waterproofing system is 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, protrusions, structurally unsound and friable concrete must be removed and repaired with a suitable Polycrete* concrete repair mortar.



TDS_Bitustick AL_GCC_0523

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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 in turn promotes the adhesion between the membrane and the concrete surface. In addition, the primer also acts as a binder for the dust which gets accumulated on the 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 AL membrane and aligning the side laps .

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 with a wooden press in order to remove any entrapped air. 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 the base surface. Side overlaps shall be a minimum of 50mm on the selvedge and end overlaps 100mm. When used as a flashing membrane on up-stands and parapets, Bitustick AL membrane will be lapped with the base membrane and taken up on the up-stand and tucked inside the groove cut along the parapet wall. The tucked membrane will be sealed with a bitumen mastic sealant (BITUMASTIC)*.

HANDLING

Bitustick AL membranes are packed in loose corrugated boxes to avoid any damage during transit or during storage at sites. 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 AL 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 membrane shall be protected from all sources of heat. 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 AL contains a tacky bitumen compound which can stick to human skin during application. Bitumen stains can be removed by using a cloth dipped in a suitable cleaner.

SUPPLY

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Bitustick AL	1.2 mm	1m x 10 m	wt 12kg#
	1.5 mm	1m x 10 m	wt 15kg#
Polyprime SB		20L pail & 200L drum	
Bituboard	3.2 mm	2m x 1m	wt 7.7kg#
	6.0 mm	2m x 1m	wt 14.0kg#
Bitutape TS		50mm x 10m	wt 0.6kg#
Wooden Press		140mm x 210mm	
Iron Roller (recommended specification)		Head Dia 38mm Width 100mm Length 350mm	wt 1.5 kg#

*Refer to website for TDS # Approximate weight

TECHNICAL SPECIFICATION

PROPERTIES	VALUES	TEST STANDARDS
Thickness, [mm]	1.2 1.5	DIN EN 1849-1
Mass per unit area, [kg/m ²]	1.2 1.5	DIN EN 1849-1
Top surfacing	Grey/Silver Cross laminated HPDE aluminum foil	-
Softening point, (R&B), [°C]	> 105	ASTM D 36
Tensile strength [Film], [N/mm ²]	Long 40 Trans 45	ASTM D 882
Elongation @break [Film],[%]	Long 150 Trans 150	ASTM D 882
Tear strength [Film], [N]	Long 20 Trans 20	ASTM D 1004
Adhesion strength, [N/mm]		
Primed substrate	1.8	ASTM D 1000
Self	2.2	
Puncture resistance, [N]	>220	ASTM E 154
Reflectance, [%]	> 60	EN 410
Hydrostatic pressure @ 5bar (50m)	No Leakage	BS EN 12390 (Part 8)
Water absorption [Film] @24 hrs, [%]	0.14	ASTM D 570
Chemical resistance, [pH]	2.5-11.5	ASTM D 543
Low temperature flexibility	<-15°C	ASTM D 1970
Crack bridging ability, [mm]	> 1	ASTM C 836
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.



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