



SBS

NILO-STICK 1500

SELF-ADHESIVE SBS BITUMEN MEMBRANE

PROPERTIES

1- Safe in application, no torch used, no hazardous fumes involved.

2- Easy to apply.

3- No special tools needed for application.

Applicator tools comprise a brush, a cutter and a rubber roller.

4- Suitable for roofing and re roofing of historical structures, combustible deck structures, health care and educational facilities.

5- Polyester reinforcement establishes membrane high tensile strength, puncture resistance, and dimensional stability.

6- Its flexible membrane that easily accommodates substrate movement.

7- Excellent barrier against vapor and water above the below ground.

8- Provides protection for sub structure against corrosive ground water and salts.

9- Selvage strip provides bitumen to bitumen seal ensuring water tightness at longitudinal joints.

APPLICATION TEMPERATURE

Ideal Application temperature is 10 – 40 °C. For lower temperature it is essential to heat the primed surface prior to application using a torch or hot air. At above 40 °C it may be difficult to remove the release film and material need to be relocated to a cooler area.

PACKAGING & STORING

Roll Size: 20M X 1M

Storage:

- 6 Months in original packaging, stored in cool, dry conditions, protected against weathering. Open package immediately before laying.
- Store vertically, never stacked. If stored at temperature below 20 °C, leave exposed to warmer temperatures before application for 6-8 hours.

DESCRIPTION:

NILO-STICK 1500 is a self-adhesive, cold applied SBS waterproofing membrane, with a composite polyester carrier, It has a release film on the under layer while the upper surface is covered with one of the following surface finish material:

-Nilo-Stick 1500	polyethylene film 8 μ
-Nilo-Stick 1500 H	polyethylene film 25 μ
-Nilo-Stick 1500 X	Cross laminated polyethylene 100 μ
-Nilo-Stick 1500 Mineral	Mineral Granules

USES

Nilo-Stick 1500

- 1- Waterproofing of protected roofs.
- 2- Waterproofing of concrete, masonry, and wood surfaces.
- 3- Waterproofing of cold pipes, ridges and hips, and planter boxes.
- 4- Waterproofing of footings and foundations walls above and below grade.

Nilo-Stick 1500 H

- 5- All Above uses in addition to:
Retaining walls, Sub-structures waterproofing, and basements tanking, where the polypropylene film enhances puncture and impact resistance.

Nilo-Stick 1500 X

- 6- All above uses in addition to:
Heavy duty civil works applications such as bridge deck waterproofing culverts, tunnels, and road ways waterproofing. Where the cross laminated film enhances dimensional stability ,tear strength ,puncture and impact resistance .

Nilo-Stick 1500 Mineral

- 7-The mineral surfaced membrane is ideal as a top finish layer in a double layer roofing system on exposed roofs, and flashing of up-stands and parapets.

INSTALLATION

A- Priming

- a. All surfaces to receive membrane must be clean, dry, and free of any oils or loose material, and must receive a coat of primer. Allow primer to completely cure (2- 6 hours), and apply membrane no later than 24 hrs from priming. Re-prime areas if contaminated by dust.

B- Fixing Membrane

- a. Peel back the release film no more than 30 cm at a time, with adhesive side facing primed surface.
- b. Press down the membrane against the substrate with a rubber/ wooden roller, starting from center to side edges in order to expel any entrapped air.
- c. For vertical application, installation shall be in approximately 2.5M manageable lengths.

C- Overlaps

- a. Membranes are produced with selvage to facilitate bitumen to bitumen strong lap joint.
- b. Side laps shall be 7-10cm, and end laps 15cm min.
- c. After removing selvage release film, press down firmly against side and end laps, with the help of a light roller.

D- Protection against backfill

- a. Membrane should always be protected to avoid damage caused by other trades, backfill material, tools, or earth moving equipment.
- b. "Nilo-board" asphalt impregnated protection board, by BituNil, shall be applied, spot bonded, to vertical and horizontal surfaces following membrane installation. Horizontal surfaces can receive protective screeds, or concrete instead of the protection board.

NILO-STICK 1500

Self –Adhesive SBS Modified Bitumen Waterproofing Membrane

NILO-STICK 1500
NILO-STICK 1500 H
NILO-STICK 1500 X
NILO-STICK 1500 Mineral

Properties	Test	Unit	Test Method	Tolerance	NILOSTICK 1500	NILOSTICK 1500 H	NILOSTICK 1500 X	NILOSTICK 1500 Mineral	
Dimensional Properties	Thickness	mm	EN-1849-1	± 5%	2	2	2	-	
	Weight (Mass Per Unit Area)	kg/m ²	EN-1849-1	± 10%	-	-	-	3	
	Determination Of Width	m	EN-1848-1	± 1%	1	1	1	1	
	Determination Of Length	m	EN-1848-1	± 1%	10	10	10	10	
	Straightness (Ortometry)	mm	EN-1848-1	-	± 10	± 10	± 10	± 10	
Compound Properties	Softening point (R&B)	° C	ASTM D- 36	Min.	70	70	70	70	
	Compound Elongation	%	UNI 8202/8	± 15%	1200	1200	1200	1200	
Membrane Properties	Mechanical properties	Tensile Strength - Longitudinal	N/50mm	EN-12311-1	± 20%	400	425	600	600
		Tensile Strength - Transverse	N/50mm	EN-12311-1	± 20%	300	325	400	400
		Elongation At Break - Longitudinal	%	EN-12311-1	±15	30	30	40	40
		Elongation At Break - Transverse	%	EN-12311-1	±15	45	45	45	50
		Tearing Strength - Longitudinal (Nail-Shank)	N	EN-12310-1	± 30%	175	175	175	175
		Tearing Strength - Transverse(Nail-Shank)	N	EN-12310-1	± 30%	300	300	300	300
		Tensile Tear Resistance - Longitudinal	N	ASTM D- 5147 . D 4073	± 30%	400	400	725	750
		Tensile Tear Resistance - Transverse	N	ASTM D- 5147 . D 4073	± 30%	225	225	350	400
		Resistance to Static Loading	Kg	EN 12730 Method A	Min.	10	10	20	20
	Dynamic Puncturing (Impact Resistance)	mm	EN 12691 Method B	Min.	400	400	700	750	
	Thermal Properties	Flow Resistance At Elevated Temperature	° C	EN-1110	Min.	60	60	60	60
		Flexability At Low Temperature ⁽¹⁾	° C	EN-1109	-	-25 TO -20	-25 TO -20	-25 TO -20	-25 TO -20
		Dimensional Stability	%	EN-1107-1	Max.	±0.3	±0.3	±0.3	±0.3
		Water Impermeability- Watertightness at Low pressure	60 Kpa	EN-1928 Method A	-	Passed	Passed	Passed	Passed
		Water Impermeability- Watertightness at High pressure ⁽²⁾	Kpa	EN-1928 Method B	Min.	100	100	200	200
	Miscellaneous Properties	Water Absorption	%	ASTM D-5147	Max.	< 1	< 1	< 1	< 1
		Vapour Permeability	µ	EN 1931	-	-	-	-	-
		Fatigue resistance on cracks	200 cycles	UNI 8202/13	-	Passed	Passed	Passed	Passed
			500 cycles		Passed	Passed	Passed	Passed	
		Shear Resistance Of joints - Longitudinal	N/50mm	EN-12317-1	± 20%	400	425	600	600
		Shear Resistance Of joints - Transverse	N/50mm	EN-12317-1	± 20%	300	325	400	400
		Thermal Ageing in air (in oven 28 days at 70 °C)	-	UNI 8202 /26	-	-	-	-	-
		Ageing Due To Atmospheric Agents (U.V Test weathering)	-	ASTM G 53 UNI 8202/29	-	-	-	-	-
		Fatigue resistance at Joints	200 cycles	UNI 8202/32	-	Passed	Passed	Passed	Passed
			500 cycles		Passed	Passed	Passed	Passed	
		Fire Classification - External Fire Performance	Class	EN 13501-5/ ENV 1187	-	F Roof	F Roof	F Roof	F Roof
		Reaction to fire	Class	EN 13501-1	-	E	E	E	E
	Adhesion Of Granules	%	EN-12039	Max.	-	-	-	≤30	
	Adhesion To Concrete	N/ 50mm	Pelage UEAtc	-	25	25	25	25	
	Resistance to root penetration	-	EN-13948	-	-	-	-	-	
	Supply Data	weight	kg/m2	-	-	2	2	2	3
		Thickness	mm	-	-	2	2	2	3
		Roll Length	M	-	-	20 / 15	20 / 15	20 / 15	10
		Roll Width	M	-	-	1	1	1	1
		Surface finish (E: Polyethylene film S: Sand SL:Slates GR: Granule XL-PE: Cross Lminated Polyethylene)							
		Upper Surface Finish	-	-	-	E or S	PP Film	X-L PE	SL or GR
Lower Surface Finish		-	-	-	Silicone Release Film	Silicone Release Film	Silicone Release Film	Silicone Release Film	

The declared average values represent the best performance achieved at the present state of our knowledge, BITUNIL S.A.E reserves the possibility to change, without warning, the technical characteristics in order to make the product more responding to the application requirements. The choice of the type of membrane for the kind of use is at the purchaser's discretion .

Distributor:

Tolerances for the above values if not mentioned are according to the UEAtc directives.

- (1) Exact value depends on thickness of the product.
- (2) Deviating from the standard method , The assessment is made in 1 Hour test 4mm or 4.5Kg/m2 products.



Nile Waterproofing Material Co. S.A.E

شركة النيل للمواد العازلة ش.م.م

50, Al Khalifa Al Maamoun St. Roxy - Heliopolis, Cairo - Egypt, Tel : (202) 24511194 - 24511195 Fax: (202) 24511198

Plant: ASPPC Industrial complex - Merghem - Alexandria

Web Site: www.bitunil.com

Email: bitunil@bitunil.com