



# SBS

## NILO-STICK 1000

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- Fiberglass reinforcement ensures maximum dimensional stability to the membrane
- 6- Reliable barrier against vapor and water above and below ground.
- 7- Provides protection for sub structure against corrosive ground water and salts.
- 8- Selvage strip provides bitumen to bitumen seal ensuring water tightness at longitudinal joints.

### APPLICATION TEMPERATURE

Ideal Application temperature is 10 - 40 °C. For lower temperatures 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 1000** is a self-adhesive, cold applied SBS modified waterproofing membrane, with a Fiberglass carrier. It has a release film on the under layer while the upper surface is covered with any of the following surface finish material:

- |                     |                                  |
|---------------------|----------------------------------|
| - Nilo-Stick 1000   | Polyethylene film 8              |
| - Nilo-Stick 1000 H | Polypropylene film 25            |
| - Nilo-Stick 1000 X | Cross Laminated Polyethylene 100 |
| - Nilo-Stick 1000 A | Aluminum film                    |

### USES

#### Nilo-Stick 1000

- 1- Bathrooms, Kitchens, and wet areas waterproofing.
- 2- Base layer in a double layer roofing/ waterproofing system applications.
- 3- Waterproofing of balconies.

#### Nilo-Stick 1000H

- 4- All Above uses in addition to Waterproofing of partially buried walls, cold pipes, tanks, and irrigation ditches.

#### Nilo-Stick 1000X

- 5- All above uses in addition to Foundations waterproofing where cross lamination film enhances puncture and impact resistance.

#### Nilo-Stick 1000A

- 6- Top layer in a multilayer system or as a single layer in specific exposed applications, where the aluminum surfacing enhances solar reflectivity.

### 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 1000

Self –Adhesive SBS Modified Bitumen Waterproofing Membrane

NILO-STICK 1000  
NILO-STICK 1000 H  
NILO-STICK 1000 X  
NILO-STICK 1000 A

Properties	Test	Unit	Test Method	Tolerance	NILOSTICK 1000	NILOSTICK 1000 H	NILOSTICK 1000 X	NILOSTICK 1000 A	
Dimensional Properties	Thickness	mm	EN-1849-1	± 5%	1.5	1.5	1.5	1.5	
	Weight (Mass Per Unit Area)	kg/m <sup>2</sup>	EN-1849-1	± 10%	-	-	-	-	
	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	400	400	400
		Tensile Strength - Transverse	N/50mm	EN-12311-1	± 20%	300	300	300	300
		Elongation At Break - Longitudinal	%	EN-12311-1	Min.	2	2	2	2
		Elongation At Break - Transverse	%	EN-12311-1	Min.	2	2	2	2
		Tearing Strength - Longitudinal ( Nail-Shank )	N	EN-12310-1	± 30%	100	125	125	100
		Tearing Strength - Transverse( Nail-Shank )	N	EN-12310-1	± 30%	100	125	125	100
		Tensile Tear Resistance - Longitudinal	N	ASTM D- 5147 . D 4073	± 30%	420	420	420	420
		Tensile Tear Resistance - Transverse	N	ASTM D- 5147 . D 4073	± 30%	275	275	275	275
		Resistance to Static Loading	Kg	EN 12730 Method A	Min.	7	7	7	7
	Dynamic Puncturing (Impact Resistance)	mm	EN 12691 Method B	Min.	200	200	200	200	
	Thermal Properties	Flow Resistance At Elevated Temperature	°C	EN-1110	Min.	60	60	60	60
		Flexibility At Low Temperature <sup>(1)</sup>	°C	EN-1109	-	-25 TO -20	-25 TO -20	-25 TO -20	-25 TO -20
		Dimensional Stability	%	EN-1107-1	Max.	±0.1	±0.1	±0.1	±0.1
		Water Impermeability- Watertightness at Low pressure	60 Kpa	EN-1928 Method A	-	Passed	Passed	Passed	Passed
		Water Impermeability- Watertightness at High pressure <sup>(2)</sup>	Kpa	EN-1928 Method B	Min.	100	100	100	100
	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	-	-	-	-	-
			500 cycles		-	-	-	-	
		Shear Resistance Of joints - Longitudinal	N/50mm	EN-12317-1	± 20%	400	400	400	400
		Shear Resistance Of joints - Transverse	N/50mm	EN-12317-1	± 20%	300	300	300	300
		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	-	-	-	-	-
			500 cycles		-	-	-	-	
		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.	-	-	-	-
	Adhesion To Concrete	N/ 50mm	Pelage UEAtc	-	25	25	25	25	
	Resistance to root penetration	-	EN-13948	-	-	-	-	-	
	Supply Data	weight	kg/m <sup>2</sup>	-	-	1.5 / 1.7	1.5 / 1.7	1.5 / 1.7	1.5 / 1.7
		Thickness	mm	-	-	1.5 / 1.7	1.5 / 1.7	1.5 / 1.7	1.5 / 1.7
		Roll Length	M	-	-	20	20	20	20
Roll Width		M	-	-	1	1	1	1	
Surface finish (E: Polyethylene S: Sand PP: Polypropylene film XL-PE: Cross Lminated Polyethylene)									
Upper Surface Finish		-	-	-	E or S	PP Film	X-L PE	Aluminum	
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/m<sup>2</sup> products.



Nile Waterproofing Material Co. S.A.E

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