



SBS

NILO-STICK 1500

Complies with EN 13969

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.

SELF-ADHESIVE SBS BITUMEN MEMBRANE

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 polyethylene film 8 μ or sand, while sand surface allows the membrane to stick to the concrete and serve as an integral whole waterproofing task.

USES

Nilo-Stick 1500

- 1- Waterproofing of protected roofs.
- 2- Waterproofing of concrete, masonry, and wood surfaces.
- 3- Waterproofing of blind mold concrete wall.
- 4- Waterproofing of cold pipes, ridges and hips, and planter boxes.
- 5- Waterproofing of foundation applications that do not require concrete protection.
- 6- Waterproofing of footings and foundations walls above and below grade.

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

Properties	Test	Unit	Test Method	Tolerance	NILO-STICK 1500	
Dimensional Properties	Thickness	mm	EN-1849-1	± 5%	2	
	Weight (Mass Per Unit Area)	kg/m ²	EN-1849-1	± 10%	-	
	Determination Of Width	m	EN-1848-1	± 1%	1	
	Determination Of Length	m	EN-1848-1	± 1%	10	
	Straightness (Ortometry)	mm	EN-1848-1	-	± 10	
Membrane Properties	Mechanical properties	Tensile Strength - Longitudinal	N/50mm	ASTMD 5147	± 20%	375
		Tensile Strength - Transverse	N/50mm	ASTMD 5147	± 20%	275
		Elongation At Break - Longitudinal	%	ASTMD 5147	±15	40
		Elongation At Break - Transverse	%	ASTMD 5147	±15	55
		Tearing Strength - Longitudinal (Nail-Shank)	N	EN-12310-1	± 30%	175
		Tearing Strength - Transverse(Nail-Shank)	N	EN-12310-1	± 30%	300
		Resistance to Static Loading	Kg	EN 12730 Method A	Min.	10
		Dynamic Puncturing (Impact Resistance)	mm	EN 12691 Method B	Min.	400
	Thermal Properties	Flow Resistance At Elevated Temperature	°C	EN-1110	Min.	60
		Flexability At Low Temperature ⁽¹⁾	°C	EN-1109	-	-25 TO -20
		Dimensional Stability	%	EN-1107-1	Max.	±0.3
		Water Impermeability- Watertightness at Low pressure	60 Kpa	EN-1928 Method A	-	Passed
		Water Impermeability- Watertightness at High pressure ⁽²⁾	Kpa	EN-1928 Method B	Min.	100
		Shear Resistance Of joints - Longitudinal	N/50mm	ASTMD 5147	± 20%	375
		Shear Resistance Of joints - Transverse	N/50mm	ASTMD 5147	± 20%	275
		Artificial Ageing	-	EN 1296 / EN 1928 (Method B 60 Kpa)	-	Passed
		Resistance to Chemicals	-	EN 1847 / EN 1928 (Method B 60 Kpa)	-	Passed
		Reaction to fire	Class	EN 13501-1	-	E
		Adhesion To Concrete	N/ 50mm	Pelage UEAtc	-	25
		Adhesion to poured Structural Concrete, 22°C ⁽³⁾	N/m	ASTMD903 (modified)	-	3400
		Adhesion Strength	N/ 50mm	EN 12316-1	Min.	40
Resistance to root penetration	-	EN-13948	-	-		
Supply Data	weight	kg/m ²	-	-	-	
	Thickness	mm	-	-	1.5 / 1.7 / 2 / 3	
	Roll Length	M	-	-	20 / 15	
	Roll Width	M	-	-	1	
	Surface finish (E: Polyethylene film S: Sand SL:Slates GR: Granule XL-PE: Cross Lminated Polyethylene)					
	Upper Surface Finish	-	-	-	E or S	
	Lower Surface Finish	-	-	-	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.
- (3) Refer to system specification



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