

THE PRODUCT

NILOBIT are plastomeric waterproofing membranes manufactured in an advanced continuous calendaring process by saturating and coating a synthetic carrier with a waterproofing compound made of a special grade of bitumen, which is modified with APP polymers. While the APP polymers enhance the thermal, mechanical, and aging properties of the membranes compound. the mechanical characteristics of NILOBIT are established by the non-woven continuous filament spun-bond Polyester or Glassfiber mat which acts as the reinforcement that provides the membrane with its particular tensile strength, tear resistance, puncture resistance and elongation properties.

The upper surface of NILOBIT is covered with an anti-adhesive finish material while the lower surface is laminated with a thermo-fusible polyethylene film.

USES

NILOBIT are multi-purpose membranes for roofing & waterproofing applications subjected to different mechanical stresses and normal weathering conditions, in multi layer systems and can be used as a single layer in specific application.

NILOBIT Membranes are particularly recommended for the following applications.

- Roofing or re-roofing works for sloped and flat protected roofs.
- Waterproofing of underground structures
- Waterproofing of wet areas, mechanical rooms and terraces.

NILOBIT MINERAL is used for exposed applications or as a capsheet in a multi-layer system.

NILOBIT Smooth NILOBIT

Mineral

APP Modified Bitumen Waterproofing Membranes

With Non-Woven Spun-Bond Polyester or Glassfiber Reinforcement

SURFACE FINISH

The lower surface of **NILOBIT** is laminated with a Polyethylene film while the upper surface is covered with one of the following surface finish materials:

Fine Sand

· Polyethylene Film

Mineral Slate chips or Special Granules

NILOBIT - S/E NILOBIT - E/E

NILOBIT MINERAL

APPLICATION

NILOBIT is usually applied by using a propane torch or a hot air generator as well as by mechanical fastening. It can also be applied using special adhesives in cold or hot applications. The substrate surface must be clean, dry, smooth, and free from any irregularities. According to the surface conditions, a coat of BituNil primer maybe required prior to the application of the membrane.

NILOBIT can be applied to the substrate fully bonded, semi bonded or loose laid, and the method of adhesion to the substrate shall be decided according to the waterproofing system design. Side laps should be from 8-10 cm, while end laps should be from 12-15 cm. For more info on application refer to BituNil application guide.

STORAGE & HANDLING

NILOBIT rolls should be kept in an upright position in a flat, properly ventilated and sheltered storage area.

STANDARD SUPPLY DATA & PALLETISING

Group 100	Group 105	Thickness *	Standard	Rolls /	Pallet
Group 100	Group 105	HIICKHESS	Roll Size	Group 100	Group 105
300	305	3mm	1M x 10M	28	28
400	405	4mm	1M x 10M	23	23

*Thickness tolerance as per UEAtc. Directives for Group 100 and UEAtc. ± 5% for Group 105.

Croum 4000	Crown 1005	\A/a:~b4 **	Standard	Rolls / Pallet		
Group 1000	Group 1005	Weight **	Roll Size	Group 1000	Group 1005	
4000	4005	4.0 Kg/ sqm	1M x 10M	30	30	
4500	4505	4.5 Kg/ sqm	1M x 10M	25	25	
5000	5005	5.0 Kg/sqm	1M x 10M	23	25	

^{**}Weight tolerance as per UEAtc. Directives for Group 1000 and UEAtc. ± 5% for Group 1005.

Loading Capacity: 20 pallets / 20' ContainerThe above quantities are indicative only and may be subject to changes in order to comply with transport limitations according to the final destination of the product.

BituNil membranes are made of non-polluting substances, therefore are safe products during production, application and use.

NILOBIT

APP Modified Bitumen Waterproofing Membranes

G:Glassfiber, GF: Low Wt., GP: Medium Wt.

P: Polyester, PP: Low Wt., PS: Medium Wt. PX:(Medium/High) Wt., PY: High Wt., PZ: Heavy Duty.

NILOBIT GF NILOBIT PP NILOBIT PX NILOBIT PY NILOBIT PZ

						NILC			TOLERANCE	TEST METHOD	UNIT	TEST	PERTIES	DDOD			
γ	PY	PY P	Y P	PZ	PΖ	PY	PX	PS	PP	GF	IOLERANCE	TEST METHOD	UNII	IESI	PEKIIES	PROP	
4	4	4 4	4 4	4	4	4	4	4	4	4	± 5%	EN-1849-1	mm	Thickness			
-	-		-	-	-	-	-	-	-	-	± 10%	EN-1849-1	kg/m2	Weight (Mass Per Unit Area)		Dima	
1	1	1	1	1	1	1	1	1	1	1	± 1%	EN-1848-1	m	Determination Of Width	ensional perties		
10	10	10 1	0 1	10	10	10	10	10	10	10	± 1%	EN-1848-1	m	Determination Of Length	perties	110	
10 ±	± 10 :	± 10 ±	10 ±	± 1	± 10	± 10	± 10	± 10	± 10	± 10	-	EN-1848-1	mm	Straightness (Ortometry)			
50 1	150	150 15	50 1:	15	150	150	150	150	150	150	Min.	ASTM D- 36	°C	Softening point (R&B)	npound	Com	
-	-		-	-	-	-	-	-	-	-	± 15%	UNI 8202/8	%	Compound Elongation	perties	Prop	
000 1	1000 1	000 11	000 11	110	1100	1000	900	800	650	350	± 20%	EN-12311-1	N/50mm	Tensile Strength - Longitudinal			
00 9	700	700 90	00 90	90	900	700	650	550	400	250	± 20%	EN-12311-1	N/50mm	Tensile Strength - Transverse			
40	40	40 4	Ю 4	45	45	40	35	30	30	2	±15 (Polyester only)	EN-12311-1	%	Elongation At Break - Longitudinal	erties		
10	40	40 5	Ю 5	50	50	40	35	35	35	2	±15 (Polyester only)	EN-12311-1	%	Elongation At Break - Transverse	Mechanical properties		
_			_	_	300		275	275	225	125	± 30%	EN-12310-1	N	Tearing Strength - Longitudinal (Nail-Shank)	<u>G</u>		
50 3	350	350 35	50 3	35	350	350	300	250	250	150	± 30%	EN-12310-1	N	Tearing Strength - Transverse (Nail-Shank)	l ar		
				80	800		625	600	550	300	± 30%	ASTM D- 5147 . D 4073	N	Tensile Tear Resistance - Longitudinal	ect		
50 6	550	550 60	50 60	60	600	550	450	350	325	250	± 30%	ASTM D- 5147 . D 4073	N	Tensile Tear Resistance - Transverse	Σ		
25	25	25 2	25 2	25	25	25	20	15	15	7	Min.	EN 12730 Method A	Kg	Resistance to Static Loading			
000 1	1000 1	000 11	000 11	110	1100	1000	700	550	450	300	Min.	EN 12691 Method B	mm	Dynamic Puncturing (Impact Resistance)			
00 1	100	100 10	00 10	10	100	100	100	100	100	100	Min.	EN-1110	°C	Flow Resistance At Elevated Temprature	es		
± 2 0	0 ± 2 C	± 2 0±	± 2 0 ±	0 ±	0 ± 2) ± 2	0 ± 2	0 ± 2	0 ± 2	0 ± 2	-	EN-1109	°C	Flexability At Low Temprature	er		
0.5 ±	±0.5 :	±0.5 ±0	0.5 ±0	±0	±0.5	±0.5	±0.5	±0.5	±0.5	±0.1	Max.	EN-1107-1	%	Dimensional Stability	o	ties	
ssed Pa	assed Pa	assed Pas	sed Pas	l Pass	Passe	assed	Passed	Passed	Passed	Passed	-	EN-1928 Method A	60 Kpa	Water Impermeablility - Watertightness at Low pressure	Thermal Properties	roper	
50 1	150	150 1	50 1	15	150	150	150	150	150	100	Min.	EN-1928 Method B	Кра	Water Impermeablility - Watertightness at High pressure		Membrane Properties	
<1 ·	< 1	< 1 <	:1 <	<	< 1	< 1	< 1	< 1	< 1	< 1	Max.	ASTM D-5147	%	Water Absorption		d d	
000 60	60000 6	0000 600	000 600	600	6000	50000	60000	60000	60000	40000	-	EN 1931	μ	Vapour Permeability		Ä	
ssed Pa	assed Pa	assed Pas	sed Pas	l Pass	Passe	assed	Passed	Passed	Passed	-	-	UNI 8202/13	200 cycles	Fatigue resistance on cracks			
-	-		-	-		-	-	-	-	-		0141 0202/13	500 cycles	rangue resistance on cracks			
000 1	1000 1	1000 11	000 11	110	1100	1000	900	800	650	350	± 20%	EN-12317-1	N/50mm	Shear Resistance Of joints - Longitudinal	i ii		
00 9	700	700 90	00 90	90	900	700	650	550	400	250	± 20%	EN-12317-1	N/50mm	Shear Resistance Of joints - Transverse	Properties		
ssed Pa	assed Pa	assed Pas	sed Pas	l Pass	Passe	assed	Passed	Passed	Passed	Passed	-	UNI 8202 /26	-	Thermal Ageing in air (in oven 28 days at 70°C)	유		
-	-		-	-	-	-	-	-	-	-	-	ASTM G 53 UNI 8202/29	-	Ageing Due To Atmospheric Agents (U.V Test weathering)	Miscellaneous		
ssed Pa	assed Pa	assed Pas	sed Pas	Pass	Passe	assed	Passed	Passed	Passed	-	-	UNI 8202/32	200 cycles	Fatigue resistance at Joints	<u>a</u>		
-	-		-	-	-	-	-	-	-	-	-	0111 02 02/32	500 cycles	rangue resistance acronnes	Sce		
				_	F Roc	_	F Roof	F Roof	F Roof	F Roof	-	EN 13501-5/ ENV 1187	Class	Fire Classification - External Fire Performance	Ĕ		
	E			_	Е		E	E	E	E	-	EN 13501-1	Class	Reaction to fire			
_				_	≤30		≤30	≤30	≤30	≤30	Max.	EN-12039	%	Adhesion Of Granules			
_	20				20	_	20	20	20	20	-	Pelage UEAtc	N/ 50mm	Adhesion To Concrete (Torch Applied)			
_			_	_	NPD	_	_				-	EN 13948	-				
				_	3 to		3 to 6	3 to 6	3 to 6	3 to 6	-	-	kg/m2	weight			
				_	2 to		2 to 5	2 to 5	2 to 5	2 to 5	-	-	mm				
				_	10					10	-	-	М				
1	1	1	1	1	1	1	1	1	1	1	-	-				C	
- 1		- 1	- 1							1		Granule)	L:Slates GR:	Surface finish (E: Polyethylene film S: Sand S	DIY Data	Supp	
					Sorl										Upper Curface Finish		
					or SL GR							-	-	opper surface riffish			
_				_	Sor	_					-	-	-	Lower Surface Finish			
to to 10 1 or I	NPE 3 to 2 to 10 1 S or I	to to 10 1 sor l	PC 0 0 1 orl	6 5 E	6 5 E or	NPE 3 to 2 to 10 1 S or I	NPD 3 to 6 2 to 5 10	NPD 3 to 6 2 to 5 10	NPD 3 to 6 2 to 5 10 1	NPD 3 to 6 2 to 5 10	-	EN 13948 - - - - - Granule)	- kg/m2 mm M M :Slates GR:	Resistance to root Penetration		Supp	

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.

istributor:





Nile Waterproofing Materials Co. S.A.E شركة النيـــل للمـــواد العــازلــــة ش.م.م