

NiloFlex 25 NiloFlex 25

Smooth

Mineral

THE PRODUCT

NiloFlex 25 are elastomeric 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 bitumen, modified with SBS polymers. While the SBS polymers enhance the thermal, mechanical, aging properties of the compound, the membrane characteristics mechanical of NiloFlex 25 are established by the non-woven continuous 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 surfaces of NiloFlex 25 is covered with an anti adhesive finish material, whereas the lower surface is laminated with a thermofusible polyethylene film.

USES

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

NiloFlex 25 membranes particularly recommended for the following applications:

- Protected waterproofing of roof decks or substrates subject to movements.
- Foundations & underground structures.
- Waterproofing of wet areas, mechanical rooms terraces.

NiloFlex 25 Mineral is used for exposed applications or as a capsheet in a multi-layer system

SBS Modified Bitumen Waterproofing Membranes

With Non-Woven Spun-Bond Polyester Or Glassfiber Reinforcement

MAJOR FEATURES

Significant compound elastic behavior

Enhanced resistance to chemicals

Excellent mechanical properties

Enhanced performance under a wide range of temperature fluctuation, (From -25 °C to 130 °C)

SURFACE FINISH

The lower surface of NiloFlex 25 is laminated with a Polyethylene film while the upper surface is covered with one of the following surface finish materials:

Fine Sand

NiloFlex 25 - S/E

Polyethylene Film

NiloFlex 25 - E/E

Mineral Slate Chips or Special Granules NiloFlex 25 Mineral

NiloFlex 25 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. NiloFlex 25 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 information on application refer to BituNil application guide.

STORAGE & HANDLING

NiloFlex 25 rolls should be kept in an upright position in a flat, properly ventilated and sheltered storage area.

STANDARD SUPPLY DATA & PALLETISING

			Standard	Rolls/ Pallet						
Group 100	Group 105	Thickness *	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.										
Group 1000	Group 1005	Weight **	Standard Roll Size	Group 1000	Group 1005 30					
4000	4005	4.0 Kg/ sqm	1M x 10M	30						
4500	4505	4.5 Kg/ sqm	1M x 10M	25	25 25					
5000	5005	5.0 Kg/sqm	1M x 10M	23						
**Weight tolerance as per UEAtc. Directives for Group 1000 and UEAtc. ± 5% for Group 1005.										

Loading Capacity: 20 pallets / Container

The 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.

NiloFlex 25

SBS Modified Bitumen Waterproofing Membranes

G:Glassfiber, GF: Low Weight, GP: Medium Weight.
P: Polyester, PP: Low Weight, PS: Medium Weight PX:(Medium/High) Weight, PY: High Weight, PZ: Heavy Duty.

NiloFlex 25 **GP** PP NiloFlex 25 NiloFlex 25 **PS** PX NiloFlex 25 NiloFlex 25 PY NiloFlex 25 PZ

Properties		Test	Unit	Test Method	Tolerance	NiloFlex 25					
						GP	PP	PS	PX	PY	PZ
Dimensional Properties		Thickness	mm	EN-1849-1	± 5%	4	4	4	4	4	4
		Weight (Mass Per Unit Area)	kg/m ²	EN-1849-1	± 10%	-	-	-		-	-
		Determination Of Width	m	EN-1848-1	± 1%	1	1	1	1	1	1
		Determination Of Length	m	EN-1848-1	± 1%	10	10	10	10	10	10
		Straightness (Ortometry)	mm	EN-1848-1	-	± 10	± 10	± 10	± 10	± 10	± 10
Compound Properties		Softening point (R&B)	°C	ASTM D- 36	Min.	130	130	130	130	130	130
		Compound Elongation	%	UNI 8202/8	± 15%	1500	1500	1500	1500	1500	1500
		Tensile Strength - Longitudinal	N/50mm	EN-12311-1	± 20%	400	600	750	900	950	1000
	es	Tensile Strength - Transverse	N/50mm	EN-12311-1	± 20%	300	400	500	600	700	750
	erti	Elongation At Break - Longitudinal	%	EN-12311-1	±15 %(Polyester only)	2	35	35	40	45	50
	Mechanical properties	Elongation At Break - Transverse	%	EN-12311-1	±15 %(Polyester only)	2	40	40	40	50	50
	ī.	Tearing Strength - Longitudinal (Nail-Shank)	N	EN-12310-1	± 30%	125	200	225	275	275	300
	ica	Tearing Strength - Transverse(Nail-Shank)	N	EN-12310-1	± 30%	125	200	250	300	300	300
	han	Tensile Tear Resistance - Longitudinal	N	ASTM D- 5147 . D 4073	± 30%	425	500	650	700	850	850
	ec	Tensile Tear Resistance - Transverse	N	ASTM D- 5147 . D 4073	± 30%	275	275	400	500	600	600
	2	Resistance to Static Loading	Kg	EN 12730 Method A	Min.	7	15	20	20	25	25
		Dynamic Puncturing (Impact Resistance)	mm	EN 12691 Method B	Min.	300	550	650	700	900	1100
	S	Flow Resistance At Elevated Temprature	°C	EN-1110	Min.	120	120	120	120	120	120
	Thermal Properties	Flexability At Low Temprature ⁽¹⁾	°C	EN-1109	-	-30 TO -25					
ties	neri	Dimensional Stability	%	EN-1107-1	Max.	±0.1	±0.5	±0.5	±0.5	±0.5	±0.5
per	F P	Water Impermeablility- Watertightness at Low pressure	60 Kpa	EN-1928 Method A	-	Passed	Passed	Passed	Passed	Passed	Passed
le Properties		Water Impermeablility- Watertightness at High pressure ⁽²⁾	Кра	EN-1928 Method B	Min.	100	150	200	300	350	400
		Water Absorption	%	ASTM D-5147	Max.	<1	<1	< 1	< 1	< 1	< 1
Membrane		Vapour Permeability	μ	EN 1931	-	60000	60000	60000	60000	60000	60000
Ę		Fatigue resistance on cracks	200 cycles	UNI 8202/13	-	-	Passed	Passed	Passed	Passed	Passed
Me	S		500cycles			-	Passed	Passed	Passed	Passed	Passed
	Properties	Shear Resistance Of joints - Longitudinal	N/50mm	EN-12317-1	± 20%	400	600	750	900	950	1000
	be	Shear Resistance Of joints - Transverse	N/50mm	EN-12317-1	± 20%	300	400	500	600	700	750
	Pro	Thermal Ageing in air (in oven 28 days at 70°C)	-	UNI 8202 /26	-	Passed	Passed	Passed	Passed	Passed	Passed
	Miscellaneous	Ageing Due To Atmospheric Agents	-	ASTM G 53	-	Passed	Passed	Passed	Passed	Passed	Passed
	ne	(U.V Test weathering)	200 cycles	UNI 8202/29	_	-	Passed	Passed	Passed	Passed	Passed
	e E	Fatigue resistance at Joints	500 cycles	UNI 8202/32	-	-	Passed	Passed	Passed	Passed	Passed
	lisc	Fire Classification - External Fire Performance	Class	EN 13501-5/ ENV 1187	-	B Roof(t2)					
	2	Reaction to fire	Class	EN 13501-1	-	E	E	E	E	E	E
		Adhesion Of Granules	%	EN-12039	Max.	≤30	≤30	≤30	≤30	≤30	≤30
		Adhesion To Concrete (Torch Applied)	N/ 50mm	Pelage UEAtc	-	40	40	40	40	40	40
		Resistance to root pentration	-	EN-13948	-	NPD	NPD	NPD	NPD	NPD	NPD
Supply Data		weight	kg/m2		-	3 to 6					
		Thickness	mm	-	-	2 to 5					
		Roll Length	М	-	-	10	10	10	10	10	10
		Roll Width	М	-	-	1	1	1	1	1	1
		Surface finish (E: Polyethylene film S: Sand SL:Slates GR: Granule)									
		Upper Surface Finish	-	-	-	S or E or SL or GR					
		Lower Surface Finish	-	_	-	S or E	S or E	S or E	S or E	SorE	S or E
		LOWER SURFACE FILISH			-	JUL	JUL	JUL	OUL	JUL	JUL

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 .

Email: bitunil@bitunil.com

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

- Exact value depends on thickness of the product.
- 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 السنيل للمسواد العسسازلسة 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

Distributor: