

NiloFlex 30 NiloFlex 30

Smooth

Mineral

THE PRODUCT

NiloFlex 30 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 30 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 surfaces of NiloFlex 30 is covered with an anti adhesive finish material, whereas the lower surface is laminated with a thermofusible polyethylene film.

USES

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

NiloFlex 30 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 30 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 -30 °C to 130 °C)

SURFACE FINISH

The lower surface of NiloFlex 30 is laminated with a Polyethylene film while the upper surface is covered with one of the following surface finish materials:

Fine Sand NiloFlex 30 - S/E

Polyethylene Film NiloFlex 30 - E/E

Mineral Slate Chips or Special Granules NiloFlex 30 Mineral

APPLICATION

NiloFlex 30 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 30 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 30 rolls should be kept in an upright position in a flat, properly ventilated and sheltered storage area.

STANDARD SUPPLY DATA & PALLETISING

Group 105	Thickness *	Standard	Rolls/ Pallet							
		Roll Size	Group 100	Group 105						
305	3mm	1M x 10M	28	28						
405	4mm	1M x 10M	23	23						
*Thickness tolerance as per UEAtc. Directives for Group 100 and UEAtc. ± 5% for Group 105.										
Group 1005	Weight **	Standard Roll Size	Group 1000	Group 1005						
4005	4.0 Kg/ sqm	1M x 10M	30	30 25 25						
4505	4.5 Kg/ sqm	1M x 10M	25							
5005	5.0 Kg/sqm	1M x 10M	23							
	305 405 rance as per UE, Group 1005 4005 4505	305 3mm 405 4mm rance as per UEAtc. Directives for 0 Group 1005 Weight ** 4005 4.0 Kg/ sqm 4505 4.5 Kg/ sqm	305 3mm 1M x 10M 405 4mm 1M x 10M rance as per UEAtc. Directives for Group 100 and U Group 1005 Weight ** Standard Roll Size 4005 4.0 Kg/ sqm 1M x 10M 4505 4.5 Kg/ sqm 1M x 10M	Group 105 Thickness * Standard Roll Size Group 100 305 3mm 1M x 10M 28 405 4mm 1M x 10M 23 rance as per UEAtc. Directives for Group 100 and UEAtc. ± 5% for Group 1005 Standard Roll Size Group 1000 4005 4.0 Kg/ sqm 1M x 10M 30 4505 4.5 Kg/ sqm 1M x 10M 25						

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 30

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 30 **GP** PP NiloFlex 30 NiloFlex 30 **PS** PX NiloFlex 30 NiloFlex 30 PY PZ NiloFlex 30

Properties		Test	Unit	Test Method	Tolerance	NiloFlex 30					
Troportios	7011100	1000	Onic	rest metriod	rolerance	GP	PP	PS	PX	PY	PZ
Dimensional	(0	Thickness	mm	EN-1849-1	± 5%	4	4	4	4	4	4
	ties	Weight (Mass Per Unit Area)	kg/m ²	EN-1849-1	± 10%	-	-	-	-	-	-
	Properties	Determination Of Width	m	EN-1848-1	± 1%	1	1	1	1	1	1
į.	Pro	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
	pound	Softening point (R&B)	°C	ASTM D- 36	Min.	130	130	130	130	130	130
Prop	erties	Compound Elongation	%	UNI 8202/8	± 15%	1600	1600	1600	1600	1600	1600
		Tensile Strength - Longitudinal	N/50mm	EN-12311-1	± 20%	400	600	750	900	950	1000
	s e	Tensile Strength - Transverse	N/50mm	EN-12311-1	± 20%	300	400	500	600	700	750
	properties	Elongation At Break - Longitudinal	%	EN-12311-1	±15 %(Polyester only)	2	35	35	40	45	50
	do	Elongation At Break - Transverse	%	EN-12311-1	±15 %(Polyester only)	2	40	40	40	50	50
	<u> </u>	Tearing Strength - Longitudinal (Nail-Shank)	N	EN-12310-1	± 30%	125	200	225	275	275	300
	Mechanical	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
	ect	Tensile Tear Resistance - Transverse	N	ASTM D- 5147 . D 4073	± 30%	275	275	400	500	600	600
	Σ	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
	v	Flow Resistance At Elevated Temprature	°C	EN-1110	Min.	120	120	120	120	120	120
	nal rtie	Flexability At Low Temprature ⁽¹⁾	°C	EN-1109	-	≤ -30	≤ -30	≤ -30	≤ -30	≤ -30	≤ -30
ties	Thermal Properties	Dimensional Stability	%	EN-1107-1	Max.	±0.1	±0.5	±0.5	±0.5	±0.5	±0.5
Je T		Water Impermeablility- Watertightness at Low pressure	60 Kpa	EN-1928 Method A	-	Passed	Passed	Passed	Passed	Passed	Passed
o o		Water Impermeablility- Watertightness at High pressure (2)	Kpa	EN-1928 Method B	Min.	100	150	200	300	350	400
Membrane Properties	Miscellaneous Properties	Water Absorption	%	ASTM D-5147	Max.	<1	< 1	< 1	< 1	< 1	< 1
rar		Vapour Permeability	μ	EN 1931	-	60000	60000	60000	60000	60000	60000
Ē		Fatigue resistance on cracks	200 cycles	UNI 8202/13	-	-	Passed	Passed	Passed	Passed	Passed
ğ			500cycles			-	Passed	Passed	Passed	Passed	Passed
		Shear Resistance Of joints - Longitudinal	N/50mm	EN-12317-1	± 20%	400	600	750	900	950	1000
		Shear Resistance Of joints - Transverse	N/50mm	EN-12317-1	± 20%	300	400	500	600	700	750
		Thermal Ageing in air (in oven 28 days at 70°C)	-	UNI 8202 /26	-	Passed	Passed	Passed	Passed	Passed	Passed
		Ageing Due To Atmospheric Agents (U.V Test weathering)	-	ASTM G 53 UNI 8202/29	-	Passed	Passed	Passed	Passed	Passed	Passed
	ane		200 cycles		-	-	Passed	Passed	Passed	Passed	Passed
	S E	Fatigue resistance at Joints	500 cycles	UNI 8202/32	-	-	Passed	Passed	Passed	Passed	Passed
	Nisc	Fire Classification - External Fire Performance	Class	EN 13501-5/ ENV 1187	-	B Roof(t2)					
	-	Reaction to fire	Class	EN 13501-1	-	Е	Е	Е	Е	Е	Е
		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
	pply	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
	ata	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	SorE	S or E	SorE	S or E
		Lower Surface Finish	-			SUIE	3 UI E	3 UI E	3 UI E	3 UI E	SUIE

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 .

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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.



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