



NiloPlast 15 Smooth NiloPlast 15 **Mineral**

THE PRODUCT

NiloPlast 15 plastomeric are waterproofing membranes manufactured advanced an 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 NiloPlast 15 are established by the non-woven filament 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 surface of NiloPlast 15 is covered with an anti-adhesive finish material while the lower surface is laminated with thermo-fusible а polyethylene film.

USES

NiloPlast 15 multi-purpose are membranes roofing for & waterproofing applications subjected to different mechanical stresses and Critical weathering conditions, in multi layer systems and can be used as a single layer in specific application.

NiloPlast 15 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.

NiloPlast 15 MINERAL is used for exposed applications or as a capsheet in a multi-layer system.

APP Modified Bitumen Waterproofing Membranes

With Non-Woven Spun-Bond Polyester Or Glassfiber Reinforcement

MAJOR FEATURES

- Good UV Resistance
- **Enhanced Resistance To Chemicals** •
- **Excellent Mechanical Properties** •
- Enhanced Performance, under a wide range of temperature fluctuation, (from -15 °C to 150 °C)

SURFACE FINISH

The lower surface of **NiloPlast 15** is laminated with a Polyethylene film while the upper surface is covered with one of the following surface finish materials:

Fine Sand

- NiloPlast 15 S/E NiloPlast 15 - E/E
- Polyethylene Film Mineral Slate chips or Special Granules NiloPlast 15 MINERAL

APPLICATION

NiloPlast 15 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. can be applied to the substrate fully bonded, semi bonded or NiloPlast 15 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

NiloPlast 15 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				
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 LIFAtc. Directives for Group 1000 and LIFAtc. + 5% for Group 1005									

Weight tolerance as per UEAtc. Directives for Group 1000 and UEAtc. $\pm 5\%$ 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.

NiloPlast 15

APP 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.

NiloPlast 15 GP NiloPlast 15 PP NiloPlast 15 PS NiloPlast 15 PX

NiloPlast 15 PY

NiloPlast 15 PZ

Properties			Unit	Test Method	Tolerance	NiloPlast 15					
		Test				GP	PP	PS	PX	PY	PZ
, <u>a</u>		Thickness	mm kg/m ²	EN-1849-1	± 5%	4	4	4	4	4	4
ties	ties	Weight (Mass Per Unit Area)		EN-1849-1	± 10%	-	-	-	-	-	-
Dimensional Properties		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.	150	150	150	150	150	150
		Compound Elongation	%	UNI 8202/8	± 15%	-	-	-	-	-	-
		Tensile Strength - Longitudinal	N/50mm	EN-12311-1	± 20%	400	650	800	900	1000	1100
	s	Tensile Strength - Transverse	N/50mm	EN-12311-1	± 20%	300	400	550	650	700	900
	properties	Elongation At Break - Longitudinal	%	EN-12311-1	±15(polyester only)	2	30	30	35	40	45
	do	Elongation At Break - Transverse	%	EN-12311-1	±15(polyester only)	2	35	35	35	40	50
		Tearing Strength - Longitudinal (Nail-Shank)	N	EN-12310-1	± 30%	140	250	275	275	275	300
	Mechanical	Tearing Strength - Transverse(Nail-Shank)	N	EN-12310-1	± 30%	190	275	275	350	350	350
	lan	Tensile Tear Resistance - Longitudinal	N	ASTM D- 5147 . D 4073	± 30%	450	550	600	625	750	800
	ech	Tensile Tear Resistance - Transverse	N	ASTM D- 5147 . D 4073	± 30%	300	325	350	450	550	600
	Σ	Resistance to Static Loading	Kg	EN 12730 Method A	Min.	7	15	15	20	25	25
		Dynamic Puncturing (Impact Resistance)	mm	EN 12691 Method B	Min.	300	450	600	700	900	1100
		Flow Resistance At Elevated Temprature	°C	EN-1110	Min.	120	120	120	120	120	120
	ties	Flexability At Low Temprature ⁽¹⁾	°C	EN-1109	-	-20 to -15	-20 to -15	-20 to -15	-20 to -15	-20 to -15	-20 to -15
es	Thermal ropertie	Dimensional Stability	%	EN-1107-1	Max.	±0.1	±0.5	±0.5	±0.5	±0.5	±0.5
erti	Thermal Properties	Water Impermeablility- Watertightness at Low pressure	60 Kpa	EN-1928 Method A	-	Passed	Passed	Passed	Passed	Passed	Passed
do	"	Water Impermeablility- Watertightness at High pressure ⁽²⁾	Кра	EN-1928 Method B	Min.	100	150	200	300	350	400
Membrane Properties		Water Absorption	%	ASTM D-5147	Max.	< 1	< 1	< 1	< 1	< 1	< 1
ane		Vapour Permeability	μ	EN 1931	-	60000	60000	60000	60000	60000	60000
nbr		Fatigue resistance on cracks	200 cycles	UNI 8202/13	-	-	Passed	Passed	Passed	Passed	Passed
Mer			500 cycles			-	-	-	Passed	Passed	Passed
	ies	Shear Resistance Of joints - Longitudinal	N/50mm	EN-12317-1	± 20%	400	650	800	900	1000	1100
	ert	Shear Resistance Of joints - Transverse	N/50mm	EN-12317-1	± 20%	300	400	550	650	700	900
	Properties	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 (U.V Test weathering)	-	ASTM G 53 UNI 8202/29	-	Passed	Passed	Passed	Passed	Passed	Passed
	ane		200 cycles		-	-	Passed	Passed	Passed	Passed	Passed
	ella	Fatigue resistance at Joints	500 cycles	UNI 8202/32	-	-	-	-	Passed	Passed	Passed
	isc	Fire Classification - External Fire Performance	Class	EN 13501-5/ ENV 1187	-	F Roof	F Roof	F Roof	F Roof	F Roof	F Roof
	Σ	Reaction to fire	Class	EN 13501-1	-	E	E	E	E	E	E
		Adhesion Of Granules	%	EN-12039	Max.	≤30	≤30	<u>≤</u> 30	≤30		≤30
		Adhesion To Concrete (Torch Applied)	N/ 50mm	Pelage UEAtc	-	20	20	20	20	20	20
		Resistance to root pentration	-	EN-13948	-	NPD	NPD	NPD	NPD	NPD	NPD
		weight	kg/m2	-	-	3 to 6	3 to 6	3 to 6	3 to 6	3 to 6	3 to 6
Supply Data		Thickness	mm	-	-	2 to 5	2 to 5	2 to 5	2 to 5	2 to 5	2 to 5
		Roll Length	M		-	10	10	10	10	10	10
		Roll Width	M		-	10	10	1	10	10	1
		Surface finish (E: Polyethylene film S: Sand SL:Slates GR: Granule)									
		Upper Surface Finish	-	-	-	or GR	or GR	or GR	or GR	or GR	or GR
		Lower Surface Finish	-	-	-	S or E	S or E	S or E	S or E	S or E	S or E

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.

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.

بيتونيل BituNil

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