

TORCHFLEX

THE PRODUCT

TORCHFLEX is an elastomeric waterproofing membrane, manufactured in an advanced continuous calendaring process by saturating and coating a composite carrier with a waterproofing compound made of a special grade of bitumen, modified with SBS polymers. While the SBS polymers enhance the thermal, mechanical, and aging properties of the membrane compound, the mechanical characteristics of TORCHFLEX are established by the composite carrier made of non-woven Polyester armoured with Glassfiber filaments, which acts as the reinforcement that provides the membrane with the profound mechanical properties of the Polyester and the prominent dimensional stability of Glassfiber

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

SBS Modified Bitumen Waterproofing Membrane

With Composite Polyester Reinforcement.

MAJOR FEATURES

- Substantial dimensional stability provided by the composite reinforcement
- Significant compound elastic, behavior which enables the compound to recover its original dimensions after elongation

USES

TORCHFLEX can be used for roofing and waterproofing applications with high dimensional stability requirements & subjected to normal movements induced by stresses & to normal weathering conditions.

TORCHFLEX membranes is particularly recommended for the following applications:

- Flat and sloped roofs protected applications for small areas.
- Protected waterproofing of substrates subject to movements.
- Under-layer in waterproofing or re-roofing works.

SURFACE FINISH

The lower surface of **TORCHFLEX** is laminated with a polyethylene film. The upper surface is covered with the following surface finish material:

Polyethylene Film

TORCHFLEX - E/E

APPLICATION

TORCHFLEX is usually applied by using a propane torch or hot air generator as well as the 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.

TORCHFLEX 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

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

SUPPLY DATA & PALLETISING

Crown 400	Group 105	Thickness *	Standard Roll Size	Rolls / Pallet	
Group 100				Group 100	Group 105
200	205	2mm	1M x 10M	28	28
300	305	3mm	1M x 10M	28	28
400	405	4mm	1M x 10M	23	23
500	505	5mm	1M x 8M	23	23

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

Loading Capacity: 20 pallets / 20' Container

TORCHFLEX

SBS Modified Bitumen Waterproofing Membrane

C: Composite Polyester Reinforcement

CP: Low Wt. CS: Medium Wt. CX: High Wt. CZ: Heavy Duty .

PROPERTIES		TEST	UNIT	TEST METHOD	TOLERANCE	TORCHFLEX	
		71 - 1				СР	
		Thickness Weight (Mass Pay Unit Avea)	mm	EN-1849-1 EN-1849-1	± 5% ± 10%	4	
Dimensiona	nsional	Weight (Mass Per Unit Area) Determination Of Width	kg/m2				
Properties		Determination of Width Determination Of Length	m m	EN-1848-1 EN-1848-1	± 1% ± 1%	1 10	
		Straightness (Ortometry)	mm	EN-1848-1	± 1%	± 10	
		Softening point (R&B)	°C	ASTM D- 36	Min.	± 10 100	
Compound Properties		Compound Elongation	%	UNI 8202/8	± 15%	800	
Порс		Tensile Strength - Longitudinal	N/50mm	EN-12311-1	± 20%	500	
		Tensile Strength - Transverse	N/50mm	EN-12311-1	± 20%	300	
	properties	Elongation At Break - Longitudinal	%	EN-12311-1	±15	30	
	ber	Elongation At Break - Transverse	%	EN-12311-1	±15	30	
	pro	Tearing Strength - Longitudinal (Nail-Shank)	N	EN-12310-1	± 30%	125	
		Tearing Strength - Transverse (Nail-Shank)	N	EN-12310-1	± 30%	150	
	Mechanical	Tensile Tear Resistance - Longitudinal	N	ASTM D- 5147 . D 4073	± 30%	400	
	ech	Tensile Tear Resistance - Transverse	N	ASTM D- 5147 . D 4073	± 30%	225	
	Σ	Resistance to Static Loading	Kg	EN 12730 Method A	Min.	10	
		Dynamic Puncturing (Impact Resistance)	mm	EN 12691 Method B	Min.	550	
	es	Flow Resistance At Elevated Temprature	°C	EN-1110	Min.	90	
	erti	Flexability At Low Temprature (1)	°C	EN-1109	-	-5 TO 0	
10	do.	Dimensional Stability	%	EN-1107-1	Max.	±0.3	
Membrane Properties	Thermal Properties	Water Impermeablility - Watertightness at Low pressure	60 Kpa	EN-1928 Method A	-	Passed	
	Ther	Water Impermeablility - Watertightness at High pressure ⁽²⁾	Кра	EN-1928 Method B	Min.	100	
		Water Absorption	%	ASTM D-5147	Max.	<1	
		Vapour Permeability	μ	EN 1931	-	40000	
		Fatique resistance on cracks	200 cycles	UNI 8202/13	-	Passed	
	ς l		500 cycles			Passed	
	ıti.	Shear Resistance Of joints - Longitudinal	N/50mm	EN-12317-1	± 20%	500	
	Properties	Shear Resistance Of joints - Transverse	N/50mm	EN-12317-1	± 20%	300	
	Prc	Thermal Ageing in air (in oven 28 days at 70°C)	-	UNI 8202 /26	-	Passed	
	Miscellaneous	Ageing Due To Atmospheric Agents (U.V Test weathering)	-	ASTM G 53 UNI 8202/29	-	Passed	
	lan	Fatique resistance at Joints	200 cycles	UNI 8202/32	-	Passed	
	sce	3	500 cycles		-	Passed	
	Ξ	Fire Classification - External Fire Performance	Class	EN 13501-5/ ENV 1187	-	F Roof	
		Reaction to fire	Class	EN 13501-1	-	E	
		Adhesion Of Granules	%	EN-12039	Max.	-	
		Adhesion To Concrete (Torch Applied)	N/ 50mm	Pelage UEAtc	-	40 NPD	
		Resistance to root Penetration weight	- kg/m2	EN 13948	-	3 to 6	
Supply Data		Thickness	кg/m2 mm	- -	-	2 to 5	
		Roll Length	M	-	-	10	
		Roll Width	M	<u>-</u>	-	10	
		Surface finish (E: Polyethylene film S: Sand SL:Slates GR: Granule)					
		Upper Surface Finish		-	<u>-</u>	E	
		Lower Surface Finish	-	-	-	E	
		LOWER DATINGE THIRDIT				-	

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 dircetives.







Nile Waterproofing Materials Co. S.A.E شركة النيــل للمــواد العــازلــــة ش.م.م BituNil

⁽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.