



SINCE 1934

TECHNO BT

TECHNOLOGY OF INSULATING MATERIALS



TwiST

SBS MODIFIED BITUMEN MEMBRANE

**SBS Modified Bitumen
Waterproofing Membrane
With Polyester Reinforcement**

THE WISE CHOICE



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MADE IN EGYPT

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Description

TECHNOBIT TWIST SBS are elastomeric water proofing membranes, manufactured in an advanced continuous calendaring process by saturating and coating a polyester carrier with a water proofing 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 **TECHNOBIT TWIST SBS** are established by the carrier made of non-woven Polyester, which acts as the reinforcement that provides the membrane with the profound mechanical properties of the Polyester.

Major Features

- Substantial Dimensional Stability.
- Good Resistance to Chemicals.
- Superior Isotropic Mechanical Properties.
- Significant Compound Elastic Behavior.
- High Performance under a wide range of temperature fluctuation.

Uses

TECHNOBIT TWIST SBS can be used for roofing and waterproofing applications with high dimensional stability requirements and subjected to considerable movements induced by stresses, and to critical weathering conditions. **TECHNOBIT TWIST SBS** membranes are particularly recommended for the following Areas of Applications :

- Flat and sloped roofs protected applications for medium and large areas.
- Foundations and underground structures with critical site conditions.
- Protected waterproofing of roof decks or substrates subject to movements, such as metal decks, insulation boards, tiles, etc.

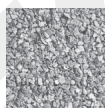
Surface Finish

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

- Fine Sand TWIST – S/E
- Polyethylene Film TWIST – E/E

- Mineral Slate

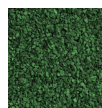
White



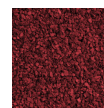
Grey



Green



Red



Method of Application

TECHNOBIT TWIST SBS 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 **TECHNOBIT PRIMER** maybe required prior to the application of the membrane.

TECHNOBIT TWIST SBS 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 **TECHNOBIT** application guide.

Storage & Handling

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

TWIST SBS

SBS Modified Bitumen Waterproofing Membrane With Polyester Reinforcement.

Properties		Test	Unit وحدة القياس	Test Method طريقة الإختبار	Tolerance السماحية	Typical Values القيم النموذجية		الإختبار	الخصائص	
Dimensional Properties	Thickness		mm	EN-1849-1	± 5 %	3	4		السمك	
	Mass Per Unit Area		kg/m ²	EN-1849-1	± 5 %	-			الوزن للمتر المربع	
	Width		m	EN-1848-1	± 1 %	1			العرض	
	Length		m	EN-1848-1	± 1 %	10			الطول	
	Straightness		mm	EN-1848-1	-	± 10			درجة إستواء السطح (الإستقامة)	
Compound Properties		Softening point (R&B)	° C	ASTM D- 36	± 5	120			درجة اللبونة	
Membrane Properties	Mechanical Properties	Tensile Strength (MAX)							مقاومة الشد القصوى	
		Longitudinal	N/5cm	EN-12311-1	± 20 %	650			طولياً	
		Transverse	N/5cm	EN-12311-1	± 20 %	450			عرضياً	
		Elongation @ Break							أقصى معدل للإستطالة	
		Longitudinal	%	EN-12311-1	± 15	33			طولياً	
		Transverse	%	EN-12311-1	± 15	33			عرضياً	
		Tearing Strength (Nail-Shank)							مقاومة التمزق - (القطع)	
		Longitudinal	N	EN-12310-1	≥	250			طولياً	
		Transverse	N	EN-12310-1	≥	300			عرضياً	
		Tensile-Tear Resistance							مقاومة التمزق - بطريقة الشد	
		Longitudinal	N	ASTM D- 5147 . D 4073	± 20 %	600			طولياً	
		Transverse	N	ASTM D- 5147 . D 4073	± 20 %	400			عرضياً	
		Resistance to static loading		KG	EN12730 Method A	≥	25			مقاومة الإختراق الإستاتيكي
		Resistance to Impact loading		mm	EN12691 Method B	≥	1000			مقاومة الإختراق الديناميكي
	Thermal Properties	Flow resistance @ Elevated Temperature		° C	ASTM D-5147, EN-1110	± 10	120			الثبات عند درجات الحرارة العالية
		Cold Temperature Flexibility		° C	ASTM D-5147, EN-1109	min.	-10 to -15			المرونة عند درجات الحرارة المنخفضة
		Dimensional Stability								ثبات الأبعاد
		Longitudinal	%	EN-1107-1	-	± 0.3			طولياً	
		Transverse	%	EN-1107-1	-	± 0.3			عرضياً	
	Miscellaneous Properties	Tightness Water		60 Kpa	EN-1928:2000	-	Pass			مقاومة نفاذية الماء
		Water Absorption		%	ASTM D-5147,UNI 8202/22	-	± 1			درجة امتصاص الماء
		Vapour Permeability		µ	UNI 8202/23 , EN1931	-	80000			نفاذية بخار الماء
		Fatigue resistance on cracks		500 cycles	UNI 8202/13	-	Passed			مقاومة الكلال فوق الشقوق
				200 cycles		-	Passed			
		Joints Tensile Strength								مقاومة الشد عند مناطق التراكب
		Longitudinal	N/5cm	EN-12317, UNI 8202/30	-	Equal to membrane			طولياً	
		Transverse	N/5cm	EN-12317, UNI 8202/30	-	Equal to membrane			عرضياً	
		Thermal Ageing in air (in oven 28 days at 70 ± 2°C)		-	EN1296, UNI 8202 /26	-	Passed			الإهتراء نتيجة للتعرض لدرجات الحرارة المختلفة (28 يوماً عند درجة حرارة 70 ± 2 °م)
		Ageing Due To Atmospheric Agents (Q.U.V Test)		-	ASTM G 53 UNI 8202/29	-	Passed			الإهتراء نتيجة للعوامل المناخية
		Fatigue resistance at Joints		500 cycles	UNI 8202/32	-	Passed			مقاومة الكلال عند الفواصل
				200 cycles		-	Passed			
		Fire Classification - External Fire Performance		Class	EN 13501-5/ ENV 1187	-	F Roof			تصنيف الحريق - أداء الحريق الخارجي
		Reaction to fire		Class	EN 13501-1	-	E			التعامل مع الحريق
		Adhesion Of Granules		%	EN-12039	-	-			التصاق الحبيبات
		Adhesion To Concrete (Torch Applied)		N/5cm	Pelage UEATc	-	40			قوة الالتصاق بالأسطح الخرسانية (تسخين بالبشوري)

- Tolerances for the above values if not mentioned are according to the UEATc directives.
- Exact value depends on thickness of the product.
- Product Technical specifications may be updated by TechnoBit without prior notice.
- Issue Date of this Technical Data Sheet is **MAY / 2022**
The Information Provided by This Issue Cancels Any Previous Issues.



ISO 9001



OHSAS 18001



ISO 14001