





APP MODIFIED WATERPROOFING MEMBRANE WITH NON-WOVEN REINFORCED POLYESTER

### THE WISE CHOICE



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#### **FACTORY**

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#### **DESCRIPTION**

**XTRA-SEAL** PET is a plastomeric waterproofing membrane manufactured in an advanced continuous calendaring process by saturating and coating a synthetic carrier a waterproofing compound made of special grade of bitumen, modified with APP polymers. While the modifiers enhance the thermal, mechanical, and aging properties of membrane compound, the mechanical characteristics of **XTRA-SEAL** is produced using the non-woven continuous filament spun-bond Polyester carrier which acts as the reinforcement that provides the membrane with its particular tensile strength, tear resistance, puncture resistance and elongation properties.

#### MAJOR FEATURES

- Perfect U.V. resistance.
- Improved chemical resistance to acidic and alkaline solutions.
- Enhanced thermal resistance under a wide range of temperature fluctuation.
- Adequate isotropic mechanical properties.
- Absolute impermeability to water.

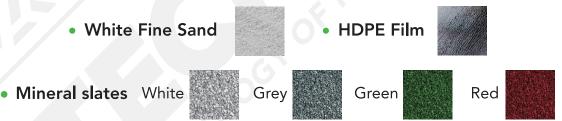
#### **USES**

**XTRA-SEAL** membranes are used in general purposes as general purpose waterproofing membranes in applications subject to moderate mechanical stresses in single or multi-layer systems for a variety of waterproofing requirements. **XTRA-SEAL** membranes are particularly recommended for the following Areas of Applications:

- Roofing or re-roofing works for sloped and flat protected roofs.
- Waterproofing of wet areas, mechanical rooms and terraces.
- Waterproofing of underground structures.

#### SURFACE FINISH

The lower surface of **XTRA-SEAL** is laminated with a thin Polyolefinic film (Sacrifice Layer) while the upper surface is covered with Polyethylene film or Mineral Slates or Sand.



#### METHOD OF APPLICATION

**XTRA-SEAL** membranes are applied by using a propane torch or by mechanical fastening. The substrate surface must be clean, dry, smooth, and free of any irregularities. According to the surface conditions, a coat of water base primers may be required, prior to the applications of the membranes. **XTRA-SEAL** can be applied to the substrate fully bonded, semi bonded or loose lay, and the method of adhesion to the substrate shall be decided according to the waterproofing system design. Side laps should be from 12 – 15 cm. For more information on application refer to the **TECHNOBIT** Application Guide.

#### STORAGE & HANDLING

**XTRA-SEAL** rolls should be kept in an upright position in a flat, properly ventilated and sheltered storage area.



# إكسترا سيل

## APP MODIFIED WATERPROOFING MEMBRANE WITH NON-WOVEN RENIFORCED POLYESTER

\_ شرائح عازلة من البتومين المعدل بال APP مسلحة بألياف البولي إستر غير المنسوج

P	roperties الخصائص	Test الإختيار	Unit وحدة القياس	Test Method طريقة الإختبار	Tolerance السماحية	Typical Values القيم النموذجية
Dimensional Properties خصانص الأبعاد		Thickness السمك	mm	EN-1849-1	± 5 %	3 4
		Width العرض	m	EN-1848-1	± 1 %	1
		Length	m	EN-1848-1	± 1 %	10
		الطول Straightness	mm	EN-1848-1		± 10
		درجة إستواء السطح ( الإستقامة ) Softening point (R&B)				
	ompound	درجة الليونة Penetration @25 °C	° C	ASTM D-36	≥	150
Properties خصانص الخليط البيتوميني		درجة الغرز عند 25 ° منوية	dmm	ASTM D-5	± 5	25
		Penetration @60 °C درجة الغرز عند 60 ° منوية	dmm	ASTM D-5	± 15	70
		Tensile Strength (MAX) مقاومة الشد القصوى				
Membrane Properties خصلص الثثناء	Mechanical Properties الخصائص الميكاتيكية	"طوليا Longitudinal	N/5cm	EN-12311-1	± 20 %	650
		"عرضيا Transverse	N/5cm	EN-12311-1	± 20 %	450
		Elongation @ Break أقصى معدل للإستطالة				
		"طوليا Longitudinal	%	EN-12311-1	± 15	32
		"عرضيا Transverse	%	EN-12311-1	± 15	32
		Tearing Strength ( Nail-Shank ) مقاومة التمزق				
		"طوليا Longitudinal	N	EN-12310-1	2	200
		"عرضيا Transverse	N	EN-12310-1	2	250
		Tensile-Tear Resistance مقاومة التعزق - بطريقة الشد				
		"طوليا Longitudinal	N	ASTM D- 5147 . D 4073	± 30 %	300
		"عرضيا Transverse	N	ASTM D- 5147 . D 4073	± 30 %	250
		Resistance to static loading مقاومهٔ الإغتراق الإستاتيكي	KG	EN12730	2	10
		Resistance to Impact loading مقاومة الإختراق الديناميكي	mm	EN12691	≥	900
	Thermal Properties الخصائص الحارية	Flow resistance @ Elevated Temperature الثبات عند درجات العرارة العالية	°C	ASTM D-5147, EN-1110	± 10	120
		Cold Temperature Flexibility ألمرونة عند برجات الحرارة المنغفضة	°C	ASTM D-5147, EN-1109	-	-2 to -5
		Dimensional Stability عثبات الأبعاد				
		Longitudinal "طوليا"	%	EN-1107-1	-	- 0.4
		"عرضیا Transverse	%	EN-1107-1	-	+ 0.4
	Miscellaneous Properties خصائص أخـرى	Tightness Water مقاومة ثقائية الماء	60 Kpa	EN-1928:2000	-	Pass
		Water Absorption درجة امتصاص الماء	%	ASTM D-5147,UNI 8202/22	≤	0.15
		Vapour Permeability انفائیة بخار الماء	μ	UNI 8202/23 , EN1931	-	60000
		Fatigue resistance on cracks	500 cycles	UNI 8202/13	-	-
		مقاومة الكلال فوق الشقوق Joints Tensile Strength مقاومة الشد عند مناطق التراكب	200 cycles	0111 0202.10	-	Passed
		معومه است حد منطق اسراعب "طرابا Longitudinal	N/5cm	EN-12317, UNI 8202/30		Equal to membran
		"عرضيا Transverse	N/5cm	EN-12317, UNI 8202/30	-	Equal to membran
		Thermal Ageing in air (in oven 28 days at 70 ± 2°C) (الافتراء تشيجة للتم ضل للرجلت الحرارة المختلفة) (الإفتراء تشيجة للتم ضل (15 70 ± 2°م)		EN1296, UNI 8202 /26	-	Passed
		Ageing Due To Atmospheric Agents  الإهتراء نتيجة للعوامل المناخية (Q.U.V Test)	-	ASTM G 53 UNI 8202/29	-	Passed
		Fatigue resistance at Joints	500 cycles	UNI 8202/32	-	- Passad
		مقاومة الكلال علا االقواصل Adhesion To Concrete (Torch Applied)	200 cycles		-	Passed
		فرة الإلتصاق بالأسطح الخرسائية (تسخين بالباشيوري)  Fire Classification - External Fire Performance	N/5cm	EN-12316	-	20 F Roof
		تصنيف الحريق - أداء الحريق الخارجي Reaction to fire	Class	EN 13501-5/ ENV 1187	-	E
		التعامل مع الحريق	Class	EN 13501-1	-	

- 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 Techinical Data Sheet is **NOV / 2022**The Information Provided by This Issue Cancels Any Previous Issues.







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