



SINCE 1934

TECHNO

TECHNOLOGY OF INSULATING MATERIALS



Xtra-Seal

APP BITUMEN MEMBRANE

APP MODIFIED WATERPROOFING
MEMBRANE WITH NON-WOVEN
REINFORCED POLYESTER

THE WISE CHOICE



+20 222 394 167 / +2 010 0691 9330



sales@technogroup-egypt.com
admin@technogroup-egypt.com



+2 010 0817 4331 / +2 010 0340 7776



FACTORY

Zero/ 157 A , Kilo17 - Misr / Bilbis road
El-Mohandsen El-Arab Association,
Al Sharqia, Egypt.



HEAD OFFICE

60-Mahmasha Street Al-Shrabya,
Cairo - Egypt.

MADE IN EGYPT

WWW.TECHNOGROUP-EGYPT.COM

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.

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 15 – 12 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.

XTRA-SEAL

APP MODIFIED WATERPROOFING MEMBRANE WITH NON-WOVEN RENIFORCED POLYESTER

إكسترا سيل

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

Properties	Test	Unit وحدة القياس	Test Method طريقة الاختبار	Typical Values القيم النموذجية	الاختبار	الخصائص
Dimensional Properties	Thickness	mm	EN-1848-1	3 4	السماكة	الوزن المساحة
	Width	m	EN-1848-1	1	العرض	
	Length	m	EN-1848-1	10	الطول	
Compound Properties	Straightness	mm	EN-1848-1	± 10	درجة انحراف السطح (إستقامة)	التصلب المساحة
	Softening point (M&B)	°C	ASIM U-38	150	درجة التليين	
	Penetration (φ)25 °C	2mm	ASIM U-5	25	درجة الغرز عند 25 ° مئوية	
Mechanical Properties	Penetration (φ)50 °C	2mm	ASIM U-5	70	درجة الغرز عند 50 ° مئوية	التمدد المساحة
	Tensile Strength (MAX)				مقاومة الشد القصوى	
	Longitudinal	N/5cm		800	طولية	
	Transverse	N/5cm		800	عرضية	
	Elongation (φ) Break				الخصي بعدد الاستطالة	
	Longitudinal	%		40	طولية	
	Transverse	%		40	عرضية	
	Tearing Strength (Nail-Shank)				مقاومة التمزق	
	Longitudinal	N		400	طولية	
	Transverse	N		300	عرضية	
	Tensile-Tear Resistance				مقاومة التمزق - بقرعة الشد	
	Longitudinal	N	ASIM U-5147 , D 4073	650	طولية	
	Transverse	N	ASIM U-5147 , D 4073	520	عرضية	
	Resistance to static loading	KG	EN 12730	25	مقاومة الإغراق الإستاتيكي	
	Resistance to impact loading	mm	EN 12691	900	مقاومة الإغراق الأستاتيكي	
	Flow resistance (φ) elevated temperature	°C	ASIM U-5147, EN-1110	120	القياس عند درجات الحرارة العالية	
	Cold temperature flexibility	°C	ASIM U-5147, EN-1109	-2 to -5	المرنونة عند درجات الحرارة المنخفضة	
	Thermal Properties	Dimensional Stability				
Longitudinal		%	EN-1107-1	-0.4	طولية	
Transverse		%	EN-1107-1	+0.4	عرضية	
Miscellaneous Properties	Lightness Water	50 Kpa	EN-1228:2000	1"max	مقاومة ثقالة الماء	التمدد المساحة
	Water Absorption	%	ASIM U-5147, UNI 8202/22	≤ 0.15	درجة امتصاص الماء	
	Vapour permeability	g	UNI 8202/23 , EN1931	60000	ثقلية بخار الماء	
	Fatigue resistance on cracks	500 cycles		-	مقاومة القتل فوق الشقوق	
		200 cycles	UNI 8202/13	1"max		
	Joint Tensile Strength				مقاومة الشد عند مفاصل التركيب	
	Longitudinal	N/5cm	EN-12317, UNI 8202/30	Equal to membrane	طولية	
	Transverse	N/5cm	EN-12317, UNI 8202/30	Equal to membrane	عرضية	
	Thermal Ageing in air (in oven 28 days at 70 ± 2 °C)	-	EN1296, UNI 8202 /26	1"max	الإغراق نتيجة التعرض لدرجات الحرارة المنخفضة (28 يوماً عند درجة حرارة 70 ± 2 °C)	
	Ageing Due to Atmospheric Agents (D.U.V Test)	-	ASIM G 53 UNI 8202/29	1"max	الإغراق نتيجة العوامل الجوية	
Fatigue resistance at Joints	500 cycles		-	مقاومة القتل عند المفاصل		
	200 cycles	UNI 8202/32	1"max			
Adhesion to Concrete (Torch Applied)	N/5cm	EN-12316	20	قوة الالتصاق بالإسفلت المرصبة (تسخين بالمشعل)		

- Tolerances for the above values if not mentioned are according to the UEAtc directives.
- Exact value depends on thickness of the product.
- Given test results are based on 4mm thick specimens.



ISO 9001



OHSAS 18001



ISO 14001