



SINCE 1934

TECHNObit

TECHNOLOGY OF INSULATING MATERIALS



Xtra-Seal

APP BITUMEN MEMBRANE

APP MODIFIED WATERPROOFING
MEMBRANE WITH NON-WOVEN
REINFORCED POLYESTER

THE WISE CHOICE



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MADE IN EGYPT

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DESCRIPTION

XTRA-SEAL GOLD Mineral 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 GOLD Mineral** 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. The upper surface of **XTRA-SEAL GOLD Mineral** is covered with grey /green/white/red mineral slates, whereas the lower face is laminated with a thermo-fusible polyolethylene film.

MAJOR FEATURES

- **Good 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.**

USES

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

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

METHOD OF APPLICATION

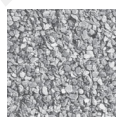
XTRA-SEAL GOLD Mineral membranes are applied by using a propane torch or by mechanical fastening. The substrate surface must be clean, dry, smooth, and free of any irregularities. According to the surface conditions, a coat of water base primers may be required, prior to the applications of the membranes. **XTRA-SEAL GOLD Mineral** 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.

SURFACE FINISH

The lower surface of **XTRA-SEAL GOLD Mineral** is laminated with a Polyolefinic film while the upper surface is covered with one of the following surface finish materials:

- **Mineral slates**

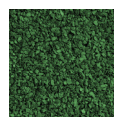
White



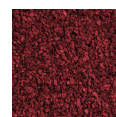
Grey



Green



Red



STORAGE & HANDLING

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

XTRA-SEAL GOLD

APP MODIFIED WATERPROOFING MEMBRANE
WITH NON-WOVEN RENIFORCED POLYESTER

إكسترا سيل جولد

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

Properties	Test	Unit وحدة القياس	Test Method طريقة الاختبار	Tolerance السمحية	Typical Values القيم النموذجية	الاختبار	الخصائص
Dimensional Properties	Thickness	mm	EN-1849-1	± 5 %	3	السمك	خصائص الأبعاد
	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	≥	150	درجة اللينة	خصائص الخليط البتوميني
	Penetration @25 °C	dmm	ASTM D-5	± 5	25	درجة الغرز عند 25 ° مئوية	
	Penetration @60 °C	dmm	ASTM D-5	± 15	70	درجة الغرز عند 60 ° مئوية	
Mechanical Properties	Tensile Strength (MAX)					مقاومة الشد القصوى	الخصائص الميكانيكية
	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	30	طولياً	
	Transverse	%	EN-12311-1	± 15	35	عرضياً	
	Tearing Strength (Nail-Shank)					مقاومة التمزق	
	Longitudinal	N	EN-12310-1	≥	400	طولياً	
	Transverse	N	EN-12310-1	≥	300	عرضياً	
	Tensile-Tear Resistance					مقاومة التمزق - بطريقة الشد	
	Longitudinal	N	ASTM D- 5147 . D 4073	± 30 %	350	طولياً	
	Transverse	N	ASTM D- 5147 . D 4073	± 30 %	300	عرضياً	
	Resistance to static loading	KG	EN12730	≥	10	مقاومة الإختراق الإستاتيكي	
	Resistance to impact loading	mm	EN12691	≥	900	مقاومة الإختراق الديناميكي	
Thermal Properties	Flow resistance @ Elevated Temperature	° C	ASTM D-5147, EN-1110	± 10	120	الثبات عند درجات الحرارة العالية	الخصائص الحرارية
	Cold Temperature Flexibility	° C	ASTM D-5147, EN-1109	-	-2 to -5	المرونة عند درجات الحرارة المنخفضة	
	Dimensional Stability					ثبات الأبعاد	
	Longitudinal	%	EN-1107-1	-	-0.4	طولياً	
	Transverse	%	EN-1107-1	-	+0.4	عرضياً	
	Tightness Water	60 Kpa	EN-1928:2000	-	Pass	مقاومة نفاذية الماء	
Miscellaneous Properties	Water Absorption	%	ASTM D-5147, UNI 8202/22	≤	0.15	درجة امتصاص الماء	خصائص أخرى
	Vapour Permeability	μ	UNI 8202/23 , EN1931	-	60000	نفاذية بخار الماء	
	Fatigue resistance on cracks	500 cycles 200 cycles	UNI 8202/13	-	- Passed	مقاومة الكلال فوق الشقوق	
	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 200 cycles	UNI 8202/32	-	- Passed	مقاومة الكلال عند الفواصل	
	Adhesion To Concrete (Torch Applied)	N/5cm	EN-12316	-	20	قوة الالتصاق بالأسطح الخرسانية (تسخين بالبانشوري)	
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		

- 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 **11 / 2021**
The Information Provided by This Issue Cancels Any Previous Issues.



ISO 9001



OHSAS 18001



ISO 14001