SINCE 1934

TECHNO bit

TECHNOLOGY OF INSULATING MATERIALS



Carisma
كاريزما

APP Modified Waterproofing Membrane With Non-woven Reniforced Polyester

THE WISE CHOICE

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Description

CARISMA 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 **CARISMA** 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.**

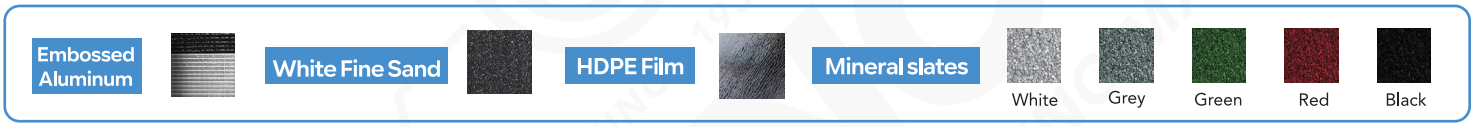
Uses

CARISMA 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.
CARISMA 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.**

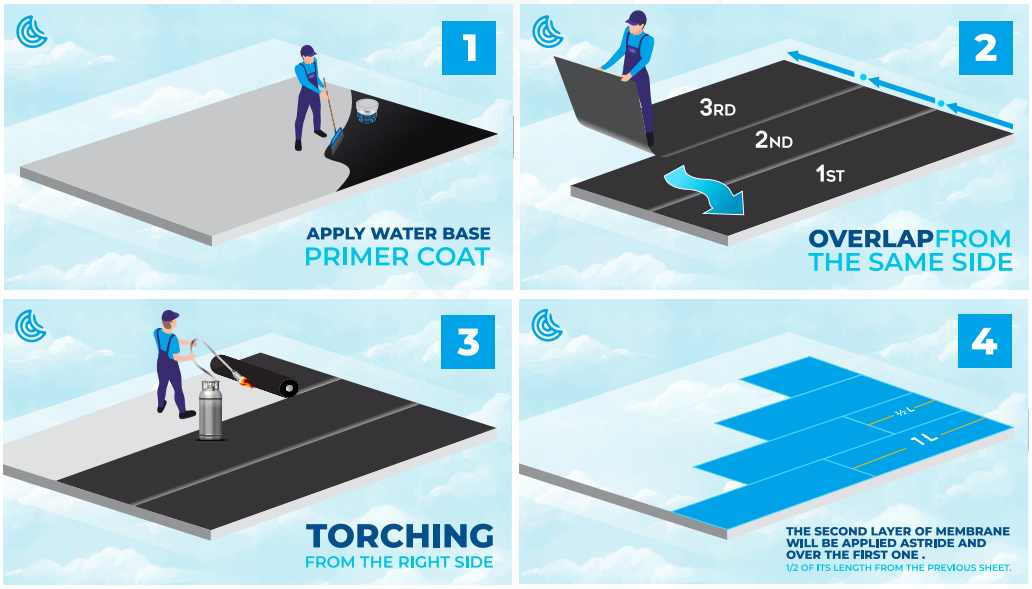
Surface Finish

The lower surface of **CARISMA** 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

CARISMA 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. **CARISMA** 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.



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Storage & Handling

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

CARISMA

APP modified waterproofing membrane
with non-Woven Reniforced Polyester

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

Properties الخصائص		Test الإختبار	Unit وحدة القياس	Test Method طريقة الإختبار	Typical Values القيم النموذجية			
Dimensional Properties خصائص الأبعاد		Thickness السمك	mm	EN-1849-1	3	3.5	4	4.5
		Width العرض	m	EN-1848-1	1			
		Length الطول	m	EN-1848-1	10			
		Straightness درجة إستواء السطح (الإستقامة)	mm	EN-1848-1	± 6			
Compound Properties خصائص الخليط البيتومينى		Softening point (R&B) درجة الليونة	° C	ASTM D- 36	150			
		Penetration @25 °C درجة الغرز عند 25 ° مئوية	dmm	ASTM D-5	25			
		Penetration @60 °C درجة الغرز عند 60 ° مئوية	dmm	ASTM D-5	70			
Membrane Properties خصائص الغشاء	Mechanical Properties الخصائص الميكانيكية	Tensile Strength (MAX) مقاومة الشد القصوى						
		Longitudinal "طوليا"	N/5cm	EN-12311-1	600			
		Transverse "عرضيا"	N/5cm	EN-12311-1	400			
		Elongation @ Break أقصى معدل للإستطالة						
		Longitudinal "طوليا"	%	EN-12311-1	35			
		Transverse "عرضيا"	%	EN-12311-1	40			
		Tearing Strength (Nail-Shank) مقاومة التمزق						
		Longitudinal "طوليا"	N	EN-12310-1	300			
		Transverse "عرضيا"	N	EN-12310-1	250			
		Tensile-Tear Resistance مقاومة التمزق - بطريقة الشد						
		Longitudinal "طوليا"	N	ASTM D- 5147 . D 4073	400			
		Transverse "عرضيا"	N	ASTM D- 5147 . D 4073	300			
		Resistance to static loading مقاومة الإختراق الإستاتيكي	KG	EN12730	15			
		Resistance to Impact loading مقاومة الإختراق االديناميكي	mm	EN12691	600			
	Thermal Properties الخصائص الحرارية	Flow resistance @ ElevatedTemperature الثبات عند درجات الحرارة العالية	° C	ASTM D-5147, EN-1110	100			
		Cold Temperature Flexibility المرونة عند درجات الحرارة المنخفضة	° C	ASTM D-5147, EN-1109	-5			
		Dimensional Stability ثبات الأبعاد						
		Longitudinal "طوليا"	%	EN-1107-1	± 0.4			
		Transverse "عرضيا"	%	EN-1107-1	± 0.4			
	Miscellaneous Properties خصائص أخرى	Tightness Water مقاومة نفاذية الماء	60 Kpa	EN-1928:2000	Pass			
		Water Absorption درجة امتصاص الماء	%	ASTM D-5147,UNI 8202/22	≤ 3.2			
		Vapour Permeability نفاذية بخار الماء	μ	UNI 8202/23 , EN1931	20000			
		Fatigue resistance on cracks مقاومة الكلال فوق الشقوق	500 cycles 200 cycles	UNI 8202/13	- Passed			
		Joints Tensile Strength مقاومة الشد عند مناطق التراكب						
		Longitudinal "طوليا"	N/5cm	EN-12317, UNI 8202/30	600			
		Transverse "عرضيا"	N/5cm	EN-12317, UNI 8202/30	400			
		Thermal Ageing in air (in oven 28 days at 70 ± 2°C) الإعتراء نتيجة للتعرض لدرجات الحرارة المختلفة (28يوماً عند درجة حرارة 70 ± 2 °م)	-	EN1296, UNI 8202 /26	Passed			
		Ageing Due To Atmospheric Agents الاعتراء نتيجة للعوامل المناخية *(Q.U.V Test)*	-	ASTM G 53 UNI 8202/29	Passed			
		Fatigue resistance at Joints مقاومة الكلال عند الفواصل	500 cycles 200 cycles	UNI 8202/32	- Passed			
		Adhesion To Concrete (Torch Applied) قوة الإلتصاق بالأسطح الخرسانية (تسخين بالباشبوري)	N/5cm	EN-12316	20			
		Fire Classification - Extemal Fire Performance تصنيف الحريق - أداء الحريق الخارجي	Class	EN 13501-5/ ENV 1187	F Roof			
		Reaction to fire التعامل مع الحريق	Class	EN 13501-1	F			

- Tolerances for the above values if not mentioned are according to the UEAtc directives.
- Tolerance for Tear properties are ± 30%.
- 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 **APRIL / 2025**
  The Information Provided by This Issue Cancels Any Previous Issues.

ISO 9001 OHSAS 18001 ISO 14001