



# Carisma كاريزما RP5

APP modified waterproofing  
membrane with non-Woven  
Reinforced Polyester

## THE WISE CHOICE



+20 222 394 167 / +2 010 0375 9160



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



+2 010 0375 9160 / +2 010 0817 4331



### 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

**Carisma RP5** 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 RP5** 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 RP5** 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 RP5** 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 RP5** is laminated with a thin Polyolefinic film (Sacrifice Layer) while the upper surface is covered with Polyethylene film or one of the following surface finish materials:

- Mineral slates

White



Grey



Green



Red



- Sand



## Method of Application

**Carisma RP5** 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 RP5** 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

**Carisma RP5** rolls should be kept in an upright position in a flat, properly ventilated and sheltered storage area.

# Carisma RP5

**APP** modified waterproofing membrane  
with non-Woven Reniforced Polyester

**كاريزما RP5**

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	الإختبار	الخصائص
Dimensional Properties	Thickness	mm	EN-1849-1	3   4	السمك	خصائص الأبعاد
	Width	m	EN-1848-1	1	العرض	
	Length	m	EN-1848-1	10	الطول	
	Straightness	mm	EN-1848-1	± 6	درجة إستواء السطح ( الإستقامة )	
Compound Properties	Softening point (R&B)	° C	ASTM D- 36	150	درجة الليونة	خصائص الخليط البتوميني
	Penetration @25 °C	dmm	ASTM D-5	25	درجة الغرز عند 25 ° مئوية	
	Penetration @60 °C	dmm	ASTM D-5	70	درجة الغرز عند 60 ° مئوية	
Membrane Properties	Tensile Strength (MAX)				مقاومة الشد القصوى	الخصائص الميكانيكية
	Longitudinal	N/5cm	EN-12311-1	650	طولياً	
	Transverse	N/5cm	EN-12311-1	450	عرضياً	
	Elongation @ Break				أقصى معدل للإستطالة	
	Longitudinal	%	EN-12311-1	35	طولياً	
	Transverse	%	EN-12311-1	30	عرضياً	
	Tearing Strength ( Nail-Shank )				مقاومة التمزق	
	Longitudinal	N	EN-12310-1	≥300	طولياً	
	Transverse	N	EN-12310-1	≥250	عرضياً	
	Tensile-Tear Resistance				مقاومة التمزق - بطريقة الشد	
	Longitudinal	N	ASTM D- 5147 . D 4073	≥600	طولياً	
	Transverse	N	ASTM D- 5147 . D 4073	≥500	عرضياً	
	Resistance to static loading		EN12730	15	مقاومة الإختراق الإستاتيكي	الخصائص الحرارية
	Resistance to Impact loading		EN12691	1000	مقاومة الإختراق الديناميكي	
	Flow resistance @ Elevated Temperature		ASTM D-5147, EN-1110	120(±10)	الثبات عند درجات الحرارة العالية	
	Cold Temperature Flexibility		ASTM D-5147, EN-1109	-2 to -5	المرونة عند درجات الحرارة المنخفضة	
	Dimensional Stability				ثبات الأبعاد	
	Longitudinal	%	EN-1107	-0.4	طولياً	
	Transverse	%	EN-1107	0.4	عرضياً	
	Tightness Water		EN-1928:2000	Pass	مقاومة نفاذية الماء	خصائص أخرى
	Water Absorption		ASTM D-5147, UNI 8202/22	≤ 0.15	درجة امتصاص الماء	
	Vapour Permeability		UNI 8202/23 , EN1931	40000	نفاذية بخار الماء	
	Fatigue resistance on cracks		UNI 8202/13	-	مقاومة الكلال فوق الشقوق	
	Joints Tensile Strength			Passed	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		UNI 8202/32	-	مقاومة الكلال عند الفواصل	
				Passed		
	Adhesion To Concrete (Torch Applied)		EN-12316	20	قوة الالتصاق بالأسطح الخرسانية (تسخين بالبنشوري)	
	Fire Classification - External Fire Performance		EN 13501-5/ ENV 1187	F Roof	تصنيف الحريق - أداء الحريق الخارجي	
	Reaction to fire		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 **FEB / 2022**  
The Information Provided by This Issue Cancels Any Previous Issues.



ISO 9001



OHSAS 18001



ISO 14001