SINCE 1934

TECHNO bit

TECHNOLOGY OF INSULATING MATERIALS



DampBlock

ASPHALT SATURATED DAMP PROOF COURSE

DPC

Modified Bitumen Waterproofing Membranes With Fiber Glass Reinforcement Layer

THE WISE CHOICE

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Description

DPC DampBlock is asphalt saturated damp proof course (DPC), manufactured in an advanced continuous calendaring process by fully saturating a fiberglass materials which act as a carrier with oxidized bitumen on both sides & coated with fine sand as upper & lower surfaces.

Major Features

- **Flexible for quick & easy installation**
- **Fine sand applied to both surfaces to reduce sticking.**
- **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

DPC DampBlock can be used for roofing and waterproofing applications with high dimensional stability requirements and subjected to considerable movements induced by stresses , and to critical weathering conditions.
DPC DampBlock membranes are particularly recommended for the following Areas of Applications :

- **Damp proofing course layer**
- **Water proofing of simple works : (substrates - retaining walls - foundations - bridge decks & wet areas)**
- **Many other purposes where high strength is required.**
- **Hot Mopping method using Technoxide oxidized bitumen.**
- **Mechanical fastening if used as underlay.**

Surface Finish

The lower surface of **DPC DampBlock** is laminated with a thin Polyolefinic film (Sacrifice Layer) while the upper surface is covered with Polyethylene film or White Fine Sand.



Method of Application

DPC DampBlock is usually applied by using a propane torch or a hot air generator as well as by mechanical fastening. It can also be applied using special adhesives in cold or hot applications. The substrate surface must be clean, dry, smooth, and free from any irregularities. According to the surface conditions, a coat of **TECHNOBIT PRIMER** maybe required prior to the application of the membrane.
DPC DampBlock can be applied to the substrate fully bonded, semi bonded or loose laid, and the method of adhesion to the substrate shall be decided according to the waterproofing system design. Side laps should be from 8 - 10 cm, while end laps should be from 12 - 15 cm. For more information on application refer to **TECHNOBIT** application guide.

Storage & Handling

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

DPC DampBlock

MODIFIED BUITMEN Waterproofing Membranes With Fiberglass Reinforcement.

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	2.9 (±5%)
		Mass Per Unit Area الوزن للمتر المربع	kg/m²	EN-1849-1	3.5 (±5%)
		Width العرض	m	EN-1848-1	1 (±1%)
		Length الطول	m	EN-1848-1	7
		Straightness درجة إستواء السطح (الإستقامة)	mm	EN-1848-1	± 10
Compound Properties خصائص الخليط البيتوميني		Softening point (R&B) درجة الليونة	° C	ASTM D- 36	≥ 130
		Compound Elongation استطالة الخليط	%	UNI 8202/8	1000
Membrane Properties خصائص الغشاء	Mechanical Properties الخصائص الميكانيكية	Tensile Strength (MAX) مقاومة الشد القصوى			
		Longitudinal "طوليا"	N/5cm	EN-12311-1	600 (±20%)
		Transverse "عرضيا"	N/5cm	EN-12311-1	500 (±20%)
		Elongation @ Break أقصى معدل للإستطالة			
		Longitudinal "طوليا"	%	EN-12311-1	10 (±5)
		Transverse "عرضيا"	%	EN-12311-1	10 (±5)
		Tearing Strength (Nail-Shank) مقاومة التمزق			
		Longitudinal "طوليا"	N	EN-12310-1	200
		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 Method A	25
		Resistance to Impact loading مقاومة الإختراق الديناميكي	mm	EN12691 Method B	750
	Thermal Properties الخصائص الحرارية	Flow resistance @ Elevated Temperature الثبات عند درجات الحرارة العالية	° C	ASTM D-5147, EN-1110	110 (±10)
		Cold Temperature Flexibility المرونة عند درجات الحرارة المنخفضة	° C	ASTM D-5147, EN-1109	-5
		Dimensional Stability ثبات الأبعاد			
		Longitudinal "طوليا"	%	EN-1107-1	± 0.3
		Transverse "عرضيا"	%	EN-1107-1	± 0.3
	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	≤ 0.5
		Vapour Permeability نفاذية بخار الماء	μ	UNI 8202/23 , EN1931	40000
		Fatigue resistance on cracks مقاومة الكلال فوق الشقوق	500 cycles 200 cycles	UNI 8202/13	Passed Passed
		Joints Tensile Strength مقاومة الشد عند مناطق التراكب			
		Longitudinal "طوليا"	N/5cm	EN-12317, UNI 8202/30	Equal to membrane
		Transverse "عرضيا"	N/5cm	EN-12317, UNI 8202/30	Equal to membrane
		Thermal Ageing in air (in oven 28 days at 70 ± 2°C) الإهتراء نتيجة للتعرض لدرجات الحرارة المختلفة (28يوماً عند درجة حرارة 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 مقاومة الكلال عند الفواصل	500 cycles 200 cycles	UNI 8202/32	Passed Passed
		Adhesion To Concrete (Torch Applied) قوة الإلتصاق بالأسطح الخرسانية (تسخين بالباشبوري)	N/5cm	EN-12316	40
		Fire Classification - Extemal Fire Performance تصنيف الحريق - أداء الحريق الخارجي	Class	EN 13501-5/ ENV 1187	B Roof (t2)
		Reaction to fire التعامل مع الحريق	Class	EN 13501-1	E

- 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 **OCT / 2025**
  The Information Provided by This Issue Cancels Any Previous Issues.

ISO 9001 OHSAS 18001 ISO 14001