



BITUMAT
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NRCA MEMBER



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POLYFLEX – MS (250 GSM)

APP Modified Bitumen Waterproofing Membrane Reinforced with 250 GSM Nonwoven Polyester

DESCRIPTION

BITUMAT POLYFLEX-MS (250 GSM) is a uniquely formulated prefabricated waterproofing membrane. It has a high quality special multi-layered design for superior pliability, tensile strength, workability and resistance to extreme climatic conditions.

BITUMAT POLYFLEX-MS (250 GSM) waterproofing membrane consists of nonwoven polyester reinforcement, impregnated and coated on both sides with APP modified bitumen. Properly installed, Bitumat Polyflex-MS (250 GSM) forms an impervious blanket which accepts normal structural movement without breaking or cracking.

USES

BITUMAT POLYFLEX-MS (250 GSM) membranes are ideal for a wide range of waterproofing applications, including roofs, reservoirs, basements, tunnels and car parks. BITUMAT POLYFLEX-MS (250 GSM) may be utilized for both exposed and covered applications.

OUTSTANDING FEATURES

- Strong membrane with excellent tear resistance.
- Very high resistance to impact and puncture.
- Total impermeability for complete waterproofing.
- Excellent resistance to weathering and aging.
- Outstanding bondability and seam integrity.
- Stability at high temperatures.
- Flexibility at low temperatures.

GENERAL DATA

Nominal Roll length: 10 Mtr.
Nominal Roll width: 1 Mtr.
Nominal Thickness: 3,4,5, MM

FINISHES

BITUMAT POLYFLEX-MS (GSM 250) is available in three basic finishes:

1. Black smooth finish with polyethylene surfaces for covered applications.
2. Granule surfacing for exposed applications.
3. Fine sanded upper surface for coated systems.

QUALITY CONTROL

In addition to stringent regular tests by BITUMAT laboratory, our products are tested periodically by independent laboratories.

INSTALLATION TOOLS REQUIRED

Gas torch, Knife, Trowel, measuring tape, Marking string Gloves.

APPLICATION

BITUMAT POLYFLEX-MS (250 GSM) is installed by torch welding method, loose-laid or fully bonded to substrate. When loose-laid, only overlaps are bonded together. Peripheres and protrusions are sealed according to specifications.

COVERAGE RATE (Approx.)

(Rate may vary as per site requirement)

Flat areas : 1.15 M² /M² per layer with 10 cms. side laps and 15 cms. end laps.
Base flashing : 100x35 cms. with 15 cm. end laps, 0.40 M²/ Linear Mtr.

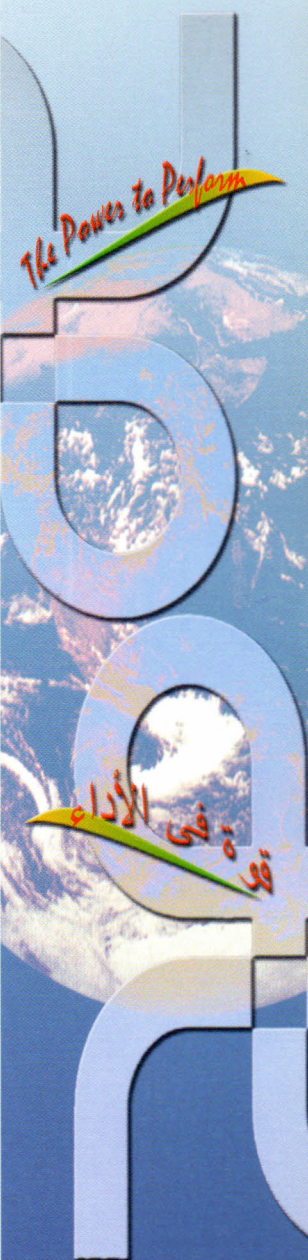
Average wastage : 3 – 5%

TORCHING GUIDELINES

The underside of the membrane should be torched just enough to superficially melt the bitumen. Excessive heating may damage the re-inforcement. Overlaps should be reheated



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TECHNICAL DATA

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	Property	Typical Value	Test Method
1.	Softening Point °C	150	ASTM D 36
2.	Penetration, @ 25°C dmm	18	ASTM D 5
3.	Low temperature flexibility, °C	-4 to -6	ASTM D 5147
4.	Heat resistance, compound stability @ 115°C for 2 hours & 15 minutes	No flow – Pass	ASTM D 5147
5.	Tensile strength, N/5 cm @ 23 ± 2 °C Longitudinal Transverse	1200 (24 KN/m) 950 (19KN/m)	ASTM D 5147
6.	Elongation % @ 23 ± 2 °C Longitudinal Transverse	50 55	ASTM D 5147
7.	Load strain product @ 23 ± 2 °C Longitudinal Transverse	60,000 52,250	CGSB-37-GP-56M
8.	Lap joint strength, N/5 cms Longitudinal Transverse	Same as membrane	CGSB-37-GP-56M UEAtc
9.	Tear resistance, N Longitudinal Transverse	800 600	ASTM D 5147
10.	Tear strength, N Longitudinal Transverse	220 240	UEAtc
11.	Static Indentation Dynamic Indentation	L ₄ I ₄	UEAtc 5.1.9. UEAtc 5.1.10
12.	Water absorption, % Wt @ 23 °C, 24 hrs.	<0.5	ASTM D 5147
13.	Water vapour transmission, g/m ² /24 hrs.	<0.5	ASTM-E-96 procedure E 37.8 °C at 90% RH
14.	Dimensional stability, % Longitudinal Transverse	± 0.5 ± 0.5	ASTM D 5147
15.	Resistance to leakage at joints	Pass	UEAtc
16.	Resistance to aging & U.V. (Weather-O-meter 2000 hrs)	No change greater than 20% of the original values	ASTM G53 UNI 8202

The information given in this Technical Data Sheet reflects typical median properties based on laboratory test, and practical experience; subject to the tolerance levels of UEAtc directives. However, as the product is often used under conditions beyond our control, we can't warrant but the product itself.

THIS PUBLICATION AUTOMATICALLY SUPERSEDES ALL PREVIOUS PUBLICATIONS RELATING TO THIS PRODUCT.

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