



**BITUMAT**  
بيتومات

The Power to Perform



NRCA MEMBER



ISO CERTIFIED

## POLYFLEX

APP Modified Waterproofing Membrane

### DESCRIPTION

BITUMAT POLYFLEX is a uniquely formulated, prefabricated waterproofing membrane with a special multi-layered design for superior pliability, tensile strength, workability and resistance to elements. The multi-layered design consists of a polyester core coated on both sides with APP modified bitumen. The polyester core gives the membrane high tensile strength, elongation and superior lap joint strength.

### USES

BITUMAT POLYFLEX membranes are ideal for a wide range of waterproofing applications including roofs, reservoirs, basements, tunnels and car parks. BITUMAT POLYFLEX may be utilized in exposed and covered applications.

### OUTSTANDING FEATURES

- Total impermeability for total waterproofing
- Dimensional stability
- Excellent resistance to aging & weathering.
- Outstanding bondability & seam integrity.
- Very high resistance to impact & puncture.
- Stability at high temperatures & flexibility at low temperatures.

### GENERAL DATA

Nominal Roll Length	: 10 M
Nominal Roll Width	: 1 M
Nominal Thickness	: 3,4 or 5 mm
Nominal Weight	: 4mm / 47 kgs per roll

### PACKAGING

- 3mm - 28 rolls / pallet
- 4mm - 23 rolls / pallet
- 5mm - 16 rolls / pallet

### FINISHES

BITUMAT POLYFLEX is available in two basic finishes:

- Black smooth finish with polyethylene surfaces for covered applications.
- Coloured granule surfacing for exposed applications.

### QUALITY CONTROL

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

### STANDARDS

BITUMAT POLYFLEX - complies with the requirements and tolerance levels of :

1. The American Society for Testing & Material ASTM-D-6222 Type I.
2. UEAtc (European Union of Technical Agreement). MOAT 27 - 1983 and MOAT 30 - 1984.
4. CGSB (Canadian General Standards Board) 37-GP56M-July 1980.

### INSTALLATION TOLLS REQUIRED:

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

### APPLICATION

BITUMAT POLYFLEX is installed by torch welding method, loose-laid or fully bonded to substrate. When loose-laid, only laps are bonded together. Peripheres and protusions are sealed according to specifications.

### COVERAGE RATE (Approx.)

(Rate may vary as per site requirement)

Flat areas	: 1.15 M <sup>2</sup> /M <sup>2</sup> per layer with 10 cms. side laps and 15 cms. end laps.
Base flashing	: 100x35 cms. with 15 cm. end laps, 0.40 M <sup>2</sup> / 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 re-heated from the top and resealed with a trowel to ensure seam integrity.

For details of installation methods and flashing requirements, consult the relevant *BITUMAT Systems Design and Installation Manual*.

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## TECHNICAL DATA

MBM04 50-E R-01 30-M

	Property	Typical Value	Test Method
1.	Softening point, °C	155	ASTM-D-36
2.	Penetration, @ 25 °C, dmm	20±5	ASTM-D-5
3.	Low temperature flexibility, °C	-2 to -4	ASTM-D-5147
4.	Heat resistance, compound stability @ 110 °C for 2 hours & 15 minutes	No flow - Pass	ASTM-D-5147
5.	Tensile strength, N/5 cm @ 23±2 °C Longitudinal Transverse	800 (17 KN/m) 600 (12 KN/m)	ASTM-D-5147
6.	Elongation, @ 23±2 °C Longitudinal Transverse	45 50	ASTM-D-5147
7.	Load strain product, @ 23±2 °C Longitudinal Transverse	38,250 30,000	CGSB-37-GP-56M
8.	Lap joint strength, @ 23±2 °C Longitudinal Transverse	Same as membrane	CGSB-37-GP-56M UEAtc
9.	Tear resistance, N @ 25±1 °C Longitudinal Transverse	320 315	ASTM-D-5147
10.	Puncture Resistance, N @ 25±1 °C Longitudinal Dynamic indentation	700 L <sub>3</sub> I <sub>3</sub>	ASTM E 154. UEAtc 5.1.9. UEAtc 5.1.10
11.	Water Absorption, %Wt @ 23 °C 24 hrs.	<1.0	ASTM-D-5147
12.	Water Vapour Transmission, g/m <sup>2</sup> /24 hrs.	<0.50	ASTM E 90 procedure E 37.8 °C at 90% RH

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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