



**BITUMAT**  
بيتومات



**NRCA MEMBER**



**ISO CERTIFIED**

## PREMIERFLEX-4000

SBS Modified Bitumen Waterproofing Membrane

### DESCRIPTION

BITUMAT PREMIERFLEX-4000 is a superior high performance, pre-fabricated, SBS Modified Bitumen Membrane, consisting of proprietary waterproofing compound re-inforced with spun-bonded non-woven polyester mat.

The Bitumat proprietary waterproofing compound is formulated with select aromatic plasticized bitumen and modified with Styrene Butadiene Styrene rubber (SBS) for optimum elasticity and flexibility at extremely low temperatures. The compound is further enhanced with unique opaque Mineral Stabilizers (MS) to improve heat, Ultra Violet (UV) and impact resistance. The superior waterproofing compound is then fabricated with a robust, isotropic, spun-bonded, non-woven, polyester mat for increased strength, toughness and dimensional stability that can resist fatigue, rupture and thermal shock cracking.

The proprietary compound, the unique re-inforcement, combined with the famous BITUMAT process technology and rigid quality assurance procedures, yields one of the most reliable and dependable waterproofing membrane available.

### USES

BITUMAT PREMIERFLEX-4000 is a general purpose waterproofing membrane and is excellent in multi-layer or single layer roofing system. When surfaced with granular slate, BITUMAT PREMIERFLEX-4000 is ideal as an exposed top layer. Also ideal for underground waterproofing systems. When superior performance is required, BITUMAT PREMIERFLEX-4000 is the answer, especially in extreme cold climates.

### OUTSTANDING FEATURES

- Excellent cold weather resistance.
- High tensile strength and tear resistance.
- Good elongation and recovery.
- Very good puncture resistance.
- Highly resistant to substrate movement.
- Excellent elasticity / flexibility.
- Excellent adhesion and seam integrity.

### GENERAL DATA

Nominal Roll length	: 10 Mtr.
Nominal Roll width	: 1Mtr.
Nominal Thickness MM	: 3.0 3.4 4.0 5.0
Nominal Weight, Kg/m <sup>2</sup>	: 4.0 4.5 5.3 6.6
Reinforcement	: Spunbonded polyester mat.

### PACKAGING

- 3mm - 28 Rolls / Pallet
- 3.4 mm - 25 Rolls / Pallet
- 4mm - 23 Rolls / Pallet
- 5mm - 16 Rolls / Pallet

### FINISHES

BITUMAT PREMIERFLEX-4000 is available in two basic finishes:

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

### QUALITY CONTROL

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

### STANDARDS

BITUMAT PREMIERFLEX-4000 complies with the requirements and tolerance levels of :

1. The American Society for Testing and Materials ASTM D 6164 Type II.
2. European Union of Technical Agreement (UEAtc) MOAT 31-1984 and MOAT 30-1984.

### INSTALLATION TOOLS REQUIRED

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

### APPLICATION

BITUMAT PREMIERFLEX-4000 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 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 re-sealed with a trowel to ensure seam integrity. For details of installation methods and flashing requirements, consult the relevant *BITUMAT Systems Design and Installation Manual*.

# PREMIERFLEX-4000

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## TECHNICAL DATA

MBM10	50-E	R-00	00
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	Property	Typical Value	Test Method
1.	Softening point, °C	120	ASTM D 36
2.	Penetration, @ 25 °C, dmm	30	ASTM D 5
3.	Low temperature flexibility, °C	-20 to -25	ASTM D 5147
4.	Heat resistance, Compound stability @ 105 °C for 2 hours & 15 minutes	No flow - Pass	ASTM D 5147
5.	Tensile strength, N/5 cm @ 23±2 °C Longitudinal Transverse	950 (19 KN/m) 750 (15 KN/m)	ASTM D 5147
6.	Tensile strength, N/5 cm @ -18±2 °C Longitudinal Transverse	1150 (23 KN/m) 900 (18 KN/m)	ASTM D 5147
7.	Elongation, % @ 23±2 °C Longitudinal Transverse	50 50	ASTM D 5147
8.	Elongation, % @ -18±2 °C Longitudinal Transverse	25 25	ASTM D 5147
9.	Load strain product, @ 23±2 °C Longitudinal Transverse	47,500 37,500	CGSB 37 GP 56M
10.	Load strain product, @ -18±2 °C Longitudinal Transverse	28,750 22,500	CGSB 37 GP 56M
11.	Lap joint strength, N/5 cm @ 25±2 °C Longitudinal Transverse	Same as membrane	CGSB 37 GP 56M UEAtc
12.	Tear resistance, N @ 25±2 °C Longitudinal Transverse	450 450	ASTM D 5147
13.	Puncture resistance, N @ 25±2 °C Static indentation Dynamic indentation	1000 L <sub>4</sub> I <sub>4</sub>	ASTM E 154, UEAtc 5.1.9. UEAtc 5.1.10
14.	Water absorption, % Wt @ 23°C / 24 hrs.	<0.25	ASTM D 5147
15.	Water vapour transmission, g/m <sup>2</sup> /24 hrs.	<0.30	ASTM E 96 procedure E 37.8 °C at 90% RH
16.	Dimensional stability, % Longitudinal Transverse	± 0.5 ± 0.5	ASTM D 5147
17.	Resistance to leakage at joints (Weather-O-Meter 2000 hrs)	Pass	UEAtc
18.	Resistance to aging & Ultra Violet (U.V)	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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