

SBS Modified Membrane With 250 grams Spunbonded Polyester Mat

DESCRIPTION

BITUMAT PREMIERFLEX-5000 is a superior high performance pre-fabricated SBS Modified Bitumen Membrane consisting a proprietary waterproofing compound re-inforced with spunbonded 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, UV and impact resistance. The superior waterproofing compound is then fabricated with a robust, isotropic, spunbonded 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 reinforcement combined with the famous BITUMAT process technology and rigid quality assurance procedures, yields the most reliable and dependable waterproofing membrane available.

USES

PREMIERFLEX-5000 is a general purpose waterproofing membrane and is excellent in multi-layer or single layer roofing system. When surfaced with granular slate, PREMIERFLEX-5000 is ideal as an exposed top layer. Also ideal for underground waterproofing systems.

When superior performance is required, PREMIERFLEX-5000 is the answer, whether in extreme cold or hot 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 Mtrs.
Nominal Roll width	: 1M
Nominal Thickness	: 4,5 MM
Reinforcement	: 250 gsm Spunbonded polyester mat.

PACKAGING

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

FINISHES

PREMIERFLEX-5000 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

PREMIERFLEX-5000 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)
3. MOAT 31-1984 and MOAT 30-1984.

INSTALLATION TOOLS REQUIRED:

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

APPLICATION

PREMIERFLEX-5000 is installed by torch welding method, loose-laid or fully bonded to substrate. When loose-laid, only laps 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 M

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

MBM15	MAY04	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 @ -18+2 °C Longitudinal Transverse	1230 1000	ASTM-D-5147
6.	Tensile strength, N/5 cm @ 23+2 °C Longitudinal Transverse	1100 900	ASTM-D-5147
7.	Elongation % @ 23+2 °C Longitudinal Transverse	50 55	ASTM-D-5147
8.	Load strain product @ 23+2 °C Longitudinal Transverse	55,000 49,500	CGSB-37-GP-56M
9.	Lap joint strength N/5 cm @ 25+2 °C Longitudinal Transverse	Same as membrane	CGSB-37-GP-56M UEAtc
10.	Tear resistance, N Longitudinal Transverse	700 550	ASTM-D-5147
11.	Tear strength, N Longitudinal Transverse	230 250	UEAtc
12.	Puncture resistance, N @ 25+2 °C Static indentation Dynamic indentation	1100 L ₄ or 30 kg I ₄	ASTM-E-154 UEAtc
13.	Water absorption, %Wt @ 23 °C 24 hrs.	<0.25	ASTM-D-5147
14.	Water vapour transmission, g/m ² /24 hrs.	<0.30	ASTM-E-96
15.	Dimensional stability % Longitudinal Transverse	+ 0.1 - 0.1	ASTMD-5147
16.	Resistance to leakage at joints (Weather O-meter 2000 hrs)	Pass	UEAtc
17.	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.