



**BITUMAT**  
بيتومات



NRCA MEMBER



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## BITUTECT - I

Modified Bitumen Protection Membrane

### DESCRIPTION

BITUMAT BITUTECT-I is a uniquely formulated, prefabricated protecting membrane with a special multilayered design for superior pliability, tensile strength, puncture strength and resistance to elements.

The multilayered design consists of a 200 gsm polyester core, coated on both sides with modified bitumen. The heavy duty polyester core gives the membrane high tensile strength, elongation and superior lap joint strength.

Properly installed, BITUMAT BITUTECT-I forms an impervious, permanently flexible and waterproof blanket which accepts normal structural movement without breaking or cracking.

### USES

BITUMAT BITUTECT-I membranes are ideal as a protection membrane to protect delicate and thin waterproofing systems that may be on roofs, reservoirs, basements, tunnels and car parks. Due to its superior mechanical properties, it resists sharply angled aggregates from damaging the waterproofing system. The polyethylene sheet on both the sides also adds to the protection property of BITUMAT BITUTECT-I.

### OUTSTANDING FEATURES

- Total protection to waterproofing systems
- Very high resistance to impact and puncture
- Impermeable to water
- Outstanding bondability and seam integrity
- Flexibility at low temperatures
- Stability at high temperatures
- Simple, single-layer installation reduces labour and errors

### GENERAL DATA

BITUMAT BITUTECT-I is a modified bitumen membrane with a 200 gm/m<sup>2</sup> nonwoven polyester reinforcement, black finish with a very thin polyethylene foil on both sides.

Nominal Weight	: 4.8 Kg/M <sup>2</sup>
Nominal Thickness	: 4 MM
Nominal Roll Size	: 1x10 Mts.

### INSTALLATION

BITUMAT BITUTECT-I can be installed by torch welding or by mechanical fastening or by using hot bitumen. If torching method is used, the under side of the membrane should be torched just enough to superficially melt the bitumen.

Excessive heating may damage the reinforcement.

Overlaps should be reheated from the top and resealed with a trowel to ensure seam integrity.

On vertical surfaces the material should be temporarily held in place or fixed with an adhesive such as BITUMAT BITUFLASH with the waterproofing membrane.

Alternatively, BITUMAT BITUTECT-I may also be mechanically fixed to concrete, by fasteners, fixed at least 6-8 inches above the waterproofing membrane without damaging the membrane.



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## TECHNICAL DATA

PTM 01	50-E	R-01	00
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	<i>Property</i>	<i>Typical Value</i>	<i>Test Method</i>
1.	Softening point, °C	155 ± 5	ASTM D 36
2.	Penetration @ 25°C, dmm	15 ± 5	ASTM D 5
3.	Tensile strength, N/5 cm Longitudinal Transverse	900 650	UEAtc; ASTM D 5147 UEAtc; ASTM D 5147
4.	Elongation, % Longitudinal Transverse	40 40	UEAtc; ASTM D 5147 UEAtc; ASTM D 5147
5.	Tear resistance, N Longitudinal Transverse	200 220	UEAtc UEAtc
6.	Puncture resistance Static indentation Dynamic indentation	25 kg I4	UEAtc UEAtc
7.	Lap joint strength Longitudinal Transverse	900 650	UEAtc CGSB 37 GP 56M
8.	Puncture resistance, N/32 mm	1500	ASTM E 154
9.	Water absorption	0.5	ASTM D 5147, Sect. 9
10.	Density	1.20	ASTM D 2389 97

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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