

POLYBOND

Oxidized Bitumen Membrane With Non-woven Polyester Re-inforcement

INTRODUCTION

BITUMAT POLYBOND is an oxidized bitumen waterproofing membrane suitable for application by gas torch or with hot bitumen. The multi-layered design provides good pliability, tensile strength, workability and resistance to Middle Eastern climatic conditions.

DESCRIPTION

BITUMAT POLYBOND waterproofing membrane consists of a non-woven polyester reinforcement, impregnated and coated on both sides with oxidized bitumen. Properly installed BITUMAT POLYBOND forms an impervious waterproofing blanket which accepts normal structural movement without breaking or cracking.

OUTSTANDING FEATURES

- Excellent cost performance ratio.
- Good resistance to fatigue and tear.
- Outstanding bondability and seam integrity.
- Impact and puncture resistant.
- Single layer installation reduces costs.

GENERAL DATA

Nominal Roll Length : 10 M
Nominal Roll Width : 1M
Nominal Thickness : 3,4, or 5 mm

FINISHES

Black finish with thin, heat fusible, polyethylene film on both sides.

INSTALLATION TOOLS REQUIRED

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

APPLICATION

BITUMAT POLYBOND is installed by torch welding method, loose-laid or fully bonded to substrate. When loose-laid, only laps are bonded together. Peripheries and protrusions are sealed according to specification.

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 reinforcement. 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

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	<i>Property</i>	<i>Test Value</i>	<i>Test Method</i>
1.	Softening Point °C	115 + 5	ASTM-D-36
2.	Penetration, @ 25°C., dmm	20 - 35	ASTM-D-5
3.	Cold flexibility, °C	+5 to 0	UEAtc
4.	Tensile Strength, N/5cms. Longitudinal Transverse	520 490	UEAtc, ASTM-D-412 UEAtc, ASTM-D-412
5.	Elongation, (re-inforcement), % Longitudinal Transverse	40 50	ASTM-D-412 ASTM-D-412
6.	Tear Resistance, N Longitudinal Transverse	120 130	UEAtc UEAtc
7.	Puncture Resistance Static Indentation Dynamic Indentation	L3 I3	UEAtc UEAtc
8.	Load Strain Product Longitudinal Transverse	20,800 24,500	CG8B-37-GP-56M CG8B-37-GP-56M
9.	Water Vapour Permeability Transmission (gm/m ² /24hr) Permeance (perms)	0.28 0.01	ASTM-E-96 ASTM-E-96
10.	Heat Resistance (2 hours °C)	70	UEAtc

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.