

# BITUSEAL 1000 & 1200

Self-Adhesive Reinforced Membranes

## INTRODUCTION

BITUMAT BITUSEAL self-adhesive membranes are produced with special multi-layered design with a glassfibre reinforcement which is impregnated and coated on both sides with a uniquely formulated, elastomeric, thermo plastic rubber which provides high adhesive properties. The compound provides self healing properties.

BITUMAT BITUSEAL 1000 incorporates a dimensionally stable rotproof glassfibre matt. BITUMAT BITUSEAL 1200 has a core of nonwoven polyester fabric.

The membranes are covered on their top surface with a translucent polyethylene foil and on the underside with a siliconised release paper. This combination along with premanufactured selvedge for overlaps, provides instant adhesion with high tear and puncture resistance and improved tensile strength. A top surfacing of polypropylene film is also available.

## DESCRIPTION

BITUSEAL 1000 - an excellent general purpose waterproofing membrane with a dimensionally stable, inert, rotproof glassfibre matt re-inforcement.

BITUSEAL 1200 - a widely specified and proven product, used extensively in waterproofing. The nonwoven polyester reinforcement provides additional puncture resistance, tensile strength and tear resistance.

## USES

BITUMAT BITUSEAL is the ideal membrane for damproofing foundations, bridges, viaducts and tunnels. It is recommended for use under composition shingles and roof tiles, as a protective shield against water and ice. Strips of various widths are used extensively in road design and construction.

## OUTSTANDING FEATURES

- Self-adhesive
- Re-inforced
- Ease of application

## GENERAL DATA

Nominal Roll Length : 20, 25 or 30Mt.  
Nominal Roll Width : 1 Mt.  
Nominal Thickness : 1.5 MM, 2MM  
Nominal Weight : 1.5 Kg/M<sup>2</sup>, 2.0 Kg/M<sup>2</sup>

### Re-inforcement:

BITUSEAL 1000 : 50-60 gsm glassfibre matt  
BITUSEAL 1200 : 130/140 gsm nonwoven polyester fabric

## QUALITY CONTROL

In addition to stringent regular tests by BITUMAT laboratory, periodic visits and Quality Control Tests are performed by Independent outside laboratories.

## INSTALLATION

### TOOLS REQUIRED:

1. Knife
2. Measuring tape
3. Small roller
4. Marking string
5. Gloves

## PRIMER

0.3 - 0.50 L/M<sup>2</sup> depending on condition of the substrate.

## APPLICATION

The surface to receive BITUMAT BITUSEAL should be smooth and dry and free from dust and dirt. The surface should be primed thoroughly with a Bitumat Concrete Primer. BITUMAT BITUSEAL is installed by progressively peeling off the release paper and unrolling the membrane along with it. The membrane, particularly at the overlaps, should be firmly pressed down to ensure a good seal.

## COVERAGE RATE (Approx.)

(Rate may vary as per site requirement)

Flat areas : 1.12 M<sup>2</sup>/M<sup>2</sup> with 10 cms. side laps and 15 cms. end laps using 20 Mtrs. rolls.

Average wastage : 3 - 5 %

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## TECHNICAL DATA

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Property	Typical Value		Test Method
	Bituseal 1000	Bituseal 1200	
1. Softening Point, °C	110	110	ASTM D 36
2. Penetration, @ 25°C, dmm	70+10	70+10	ASTM D 5
3. Reinforcement	50-60 gm/m <sup>2</sup> glassfibre matt	120-130 gm/m <sup>2</sup> polyester matt	-
4. Tensile Strength, N/5cm Longitudinal Transverse	400 (5.33 N/mm <sup>2</sup> ) 300 (4.0 N/mm <sup>2</sup> )	600 (7.995 N/mm <sup>2</sup> ) 480 (6.39 N/mm <sup>2</sup> )	ASTM D 412;ASTM D 828 UNI 8202
5. Elongation at break, %	>2000	>2000	ASTM D 412(c); DIN 1955
6. Lap Joint Strength, N/5 cm Longitudinal Transverse	400 300	600 480	UEAtc
7. Tear Resistance, KN/M Longitudinal Transverse	23.00 (128.5 lbf/in) 28.00 (156.46 lbf/in)	44.44 (248.58 lbf/in) 50.00 (279.66 lbf/in)	ASTM D 624 D
8. Puncture Resistance, N	120	380	ASTM E 154
9. Water Absorption, % WT (72 hrs.@ 23°C)	<0.08	<0.08	ASTM D 5147
10. Water Vapor Transmission, g/m <sup>2</sup> /24 hr. Permeance	<0.2 Impermeable	<0.2 Impermeable	ASTM E 96 Procedure E 37.8°C at 90% RH
11. Adhesion Strength, N/mm To primed deck To sell	3.11 3.11	3.11 3.11	ASTM D 1000
12. Low Temperature Flexibility	-20 pass	-20 pass	UNI 8202; UEAtc
13. Impermeability of welded seams to water pressure	Absolutely Impermeable	Absolutely Impermeable	UEAtc guidelines
14. Resistance to accelerated aging (Weather-O-Meter) 2000 Hrs (Equals 10 years exposure to elements)	Pass	Pass	ASTM G 53; UNI 8202
15. Resistance to chemicals	Good / Conform	Conform	ASTM D 543

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.