

**BITUMAT****WATERPROOFING**

Bituseal 1000 & 1200

Self-adhesive reinforced membranes

INTRODUCTION

BITUSEAL self-adhesive membranes are produced with special multi-layer design with a glassfibre or polyester reinforcement which is impregnated and coated on both sides with a uniquely formulated elastomeric bitumen compound, which provides high adhesive properties.

BITUSEAL 1000 incorporates a dimensionally stable rotproof glassfibre matt.

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 provides instant adhesion with high tear and puncture resistance and improved tensile strength. A top surfacing of polypropylene film is also available.

BITUSEAL DSA, with its double sided self adhesive finish, is available for special applications.

DESCRIPTION

BITUSEAL 1000 – an excellent general purpose water proofing membrane with a dimensionally stable, inert, rotproof 50-60 gsm glassfibre matt reinforcement.

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

BITUSEAL is the ideal membrane for damp-proofing 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
- Reinforced
- Ease of application

GENERAL DATA

Nominal roll length	20, 25 or 30 mt.
Nominal roll width	1 mt.
Nominal thickness	1.5 mm
Nominal weight	1.5 kg/m ²

Reinforcement:

BITUSEAL 1000

50 - 60 gsm
glassfibre matt

BITUSEAL 1200

130 gsm nonwoven
polyester fabric

QUALITY CONTROL

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

INSTALLATION

TOOLS REQUIRED

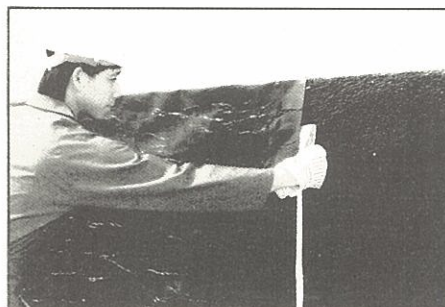
1. Knife
2. Measuring tape
3. Small roller
4. Marking string

APPLICATION

The surface to receive Bituseal should be smooth and dry and should be free from dust and dirt. The surface should be primed thoroughly with a concrete primer. 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 RATES

For flat areas	1.13 m ² /m ² per layer
For 30 cm girth flashing	0.35 m ² /mt. length
Average wastage	3 - 5%

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TECHNICAL DATA

Property	Bituseal 1000	Bituseal 1200	Test Method
1. Softening point, °C	115	115	ASTM D 36
2. Penetration, @ 25°C, dmm @ 46°C, dmm	70 ± 10 110	70 ± 10 110	ASTM D 5
3. Reinforcement	50 - 60 gm/m ² glassfibre matt	140 gm/m ² nonwoven polyester	
4. Tensile strength, N/5 cm Longitudinal Transverse	400 (5.33 N/mm ²) 300 (4.0 N/mm ²)	600 (7.995 N/mm ²) 480 (6.39 N/mm ²)	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	26.83 (150 lbf/in) 32.20 (180 lbf/in)	44.44 (248.58 lbf/in) 50.00 (279.66 lbf/in)	ASTM D 624 D
8. Puncture resistance, Kg	32.30	38.67	UEAtc; ASTM E 154
9. Water absorption, % Wt. (672 hrs, @ 23°C)	< 0.08	< 0.08	ASTM D 471; ASTM D 570
10. Water vapor transmission, g/m ² /24hr. 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 self	3.11 3.11	3.11 3.11	ASTM D 1000
12. Low temp. flexibility (cold bend @ -15°C for 8 days)	- 20 pass No cracking	- 20 pass No cracking	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

The information in this Technical Sheet is given to the best of our knowledge based on laboratory tests and practical experience. However, as the product is often used under conditions beyond our control, we cannot guarantee anything but the product itself.

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BITUMAT COMPANY LIMITED

Corporate Office: P. O. Box 7487 Dammam 31462 Saudi Arabia
Tel: (966-3) 8121210 / 8121213 Fax: (966-3) 8121190 / 8121189
e-mail: bitumat@saudionline.com.sa

Central Region: P. O. Box 58698 Riyadh 11515 Saudi Arabia
Tel: (01) 4770443 / 4792553 Fax: (01) 4762318

Western Region: P. O. Box 12605 Jeddah 21483 Saudi Arabia
Tel: (02) 6644449 Fax: 6640506

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