

# BITUMAT بيتومات

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## BITUMAT BITUSEAL 1500 CLX - MR

### DESCRIPTION

BITUSEAL 1500 CLX – MR is a self-adhesive, extremely flexible waterproofing membrane. The elastic self-adhesive, SBS Modified bitumen compound is reinforced with rotproof 50 – 60 GSM Glassfiber matt backed with a Cross Laminated HDPE Film resulting in outstanding physical properties making Bituseal 1500 CLX - MR as one of the most rugged self-adhesive membranes. The advanced carrier film is manufactured by cross laminating and chemically bonding the layer together.

### USES

BITUSEAL 1500 CLX – MR is ideal for damp proofing, foundations, bridges, viaducts and other sub-grade applications. When used with Bitumat water-stops cast into the concrete shell, it will provide a high performance, chemically resistant and fully continuous waterproofing / tanking system for basement and sub-structures.

### OUTSTANDING FEATURES

- **Extremely flexible** with typically over 1200% coating elongation and is capable of bridging shrinkage cracks in the concrete. It's high elongation and self-healing properties enable it to accommodate minor settlement also.
- **The cross lamination** provides dimensional stability, high tear strength, puncture and impact resistance to the membrane.
- **Self-adhesive.**
- **Has excellent resistance** to aggressive soils and contaminated ground water.
- **Ease of application.**

### GENERAL DATA

Nominal Roll Length	:	20m roll
Nominal Roll Width	:	1 mtr.
Nominal Weight	:	32 kg & 42 Kgs
Thickness	:	1.60mm & 2.10 mm

### PACKAGING

Palletization 16 rolls per pallet.  
Storage Store upright in a dry condition below 40°C.

### QUALITY CONTROL

In addition to stringent regular tests by Bitumat laboratory, our products are tested periodically by Third parties.

### INSTALLATION TOOLS REQUIRED:

Knife, Measuring tape, Marking string, Gloves etc.

### APPLICATION

Measures should be taken to ensure that all surfaces are free from ice, frost or condensation. Installation is recommended between +5°C and +40°C.

All surfaces to receive Bituseal 1500 CLX – MR shall be smooth, regular, dry, free from nails and primed with one coat of Bitumat Primer applied by brush or roller at a rate of 3 - 4 sqm/liter depending on the porosity of the surface, and allowed to dry completely before the application of the Bitumat Bituseal 1500 CLX - MR.

Bitumat Bituseal 1500 CLX – MR shall be laid by peeling back the protective release paper and applying the adhesive face onto the prepared surface. The material should be brushed on to the surface to ensure good initial bond.

Adjacent rolls are aligned and overlapped minimum 50 mm at side laps and 100 mm at end laps and well rolled with a firm pressure using a Bitumat Roller to ensure complete adhesion and continuity between the layers. In cool conditions, the application of the gentle heat between layers by hot air gun or soft flame will assist promoting adhesion at lap joints. Care to be taken that no wrinkles are formed.

Bitumat Bituseal 1500 CLX – MR to extend about 300mm beyond line or retaining walls to allow continuity with the vertical application. Any punctures or damaged areas should be cleaned and patched using Bitumat Bituseal 1500 CLX – MR with 50 – 100 mm laps all around.

Pipe entries maybe sealed prior to the application of Bitumat Bituseal 1500 CLX - MR.

Once the application of Bituseal is complete, care has to be taken to ensure proper protection against physical damage. Other tradesmen move around the site and the possibilities of physical damage are increased. It is recommended to apply a minimum 25-50mm screed as horizontal protection or Bitumat protection boards spot bonded. Vertical faces to be protected if required against damage from backfilling and fixing of reinforcement by using boards recommended by BITUMAT and spot bonded.

# BITUMAT BITUSEAL

1500 CLX - MR

## TECHNICAL DATA

MBM31	110-S	R-00	00
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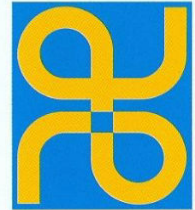
Property	Typical Value		Test Method
	CLX - MR		
Elongation of Adhesive Compound coating compound (%)	2000		ASTM D 882
Adhesive Compound Softening point (°C)	110		UEAtc, ASTM D 36
<b>Top Surfacing</b>			
Tensile Strength	Longitudinal	35 (N/mm <sup>2</sup> )	ASTM D 882
	Transverse	30 (N/mm <sup>2</sup> )	
Elongation	Longitudinal	550 %	ASTM D 882
	Transverse	600 %	ASTM D 882
Tear Strength	Longitudinal	180 N/mm	ASTM D 1004
	Transverse	190 N/mm	
Nominal Thickness (mm)	1.6 & 2.1		UEAtc, ASTM D 751
Tensile Strength	Longitudinal	350 N/5cm	EN 12311-1
	Transverse	250 N/5cm	
Tear Strength	Longitudinal	210 N	EN 12310-1
	Transverse	130 N	
Puncture Resistance	210 N		ASTM E 154
Resistance to Hydrostatic Pressure	7 bar		DIN 1048, ASTM D5385
Flexibility at Low Temperature	-20 °C Pass		UEAtc
Adhesion Strength to Primed Concrete	2.2 N/mm		ASTM D 1000
Adhesion Strength to self	2.2 N/mm		ASTM D 1000
Water Vapour Transmission	0.2 gr/m <sup>2</sup> /24hrs		ASTM E 96
Water Absorption	@ 24 hrs.	0.14 %	ASTM D 570
	@ 35 days	0.95 %	
Environmental Resistance	Conforms		ASTM D 543
Crack bridging ability	2 mm		ASTM C 836

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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