



BITUMAT
بيتومات

The Power to Perform

قوة في الأداء



BITUMAT BITUSEAL 1500 CLX - VR

DESCRIPTION

BITUSEAL 1500 CLX - VR 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 - VR 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 - VR 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	: 20 m	15 m
Nominal Roll Width	: 1 m	1 m
Nominal Weight	: 32 kg	42 Kgs
Thickness	: 1.6 mm	2.1 mrr

PACKAGING

Palletization 16 rolls per pallet.
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 +50°C.

All surfaces to receive Bituseal 1500 CLX - VR 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 - VR.

Bitumat Bituseal 1500 CLX - VR 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 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 - VR 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 - VR with 50 mm laps all around.

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

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
بيتومات

BITUMAT BITUSEAL

1500 CLX - VR

TECHNICAL DATA

MBM31	110-S	R-00	00
-------	-------	------	----

Property	Typical Value		Test Method
	CLX - VR		
Elongation of compound (%)	≥1200 %		ASTM D 882
Softening point (°C)	110		UEAtc, ASTM D 36
Top Cross Laminated HDPE Film			
Tensile Strength	Longitudinal	42 (N/mm ²)	ASTM D 882
	Transverse	48 (N/mm ²)	
Elongation	Longitudinal	230 %	ASTM D 882
	Transverse	180 %	ASTM D 882
Tear Strength	Longitudinal	350 N/mm	ASTM D 1004
	Transverse	315 N/mm	
Membrane			
Nominal Thickness (mm)	1.6 & 2.1		UEAtc, ASTM D 751, ASTM D 5147
Tensile Strength	Longitudinal	400 N/5cm	ASTM D 5147
	Transverse	300 N/5cm	
Tear Strength	Longitudinal	240 N	ASTM D 5147
	Transverse	150 N	
Puncture Resistance	230 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 ² /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

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.

The Power to Perform

قوة في الأداء



NRCA MEMBER



Follow us:



BITUMAT COMPANY LIMITED

Corporate Office : P.O. Box 7487, Dammam 31462, Kingdom of Saudi Arabia Tel. No. (966-13) 8121210 / 8121213 Fax No: (966-13) 8121190
Central Region : P.O. Box 58698, Riyadh 11515, Kingdom of Saudi Arabia Tel. No. (966-11) 4770443 / 4792553 Fax No: (966-11) 4762318
Western Region : P.O. Box 12605, Jeddah 21483, Kingdom of Saudi Arabia Tel. No. (966-12) 6644449 Fax No: (966-12) 6640506
Email : marketing@bitumat.com / **Website** : www.bitumat.com