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NRCA MEMBER



ISO 9001:2008



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BITUMAT BITUSEAL 1500 CLX

DESCRIPTION

BITUSEAL 1500 CLX is a self-adhesive, extremely flexible waterproofing membrane. The thick elastic self-adhesive rubber / bitumen compound is backed with a strong cross laminated, high density, multi-layer polyethylene film with outstanding physical properties making Bituseal 1500 CLX 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 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
Thickness	:	1.5mm & 1.6mm

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 Independent laboratories.

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 +4°C and +40°C.

All surfaces to receive Bituseal 1500 CLX 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 10-12 sq m/liter depending on the porosity of the surface, and allowed to dry completely before the application of the Bitumat Bituseal 1500 CLX.

Bitumat Bituseal 1500 CLX 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 50mm minimum at side and ends and well rolled with a firm pressure using a pressure 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 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 with 50mm laps all around.

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

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.

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1500 CLX

TECHNICAL DATA

		MBM16	50-E	R-01	R-110
	Property	Test Method	Typical Value		
1	Softening Point	ASTM D 36	110 ±5 deg ⁰ C		
2	Tensile Strength (Film)	ASTM D 638	Long 42.0 N/mm ² Trans 48.0 N/mm ²		
3	Elongation, (Film)	ASTM D 638	Long 230 % Trans 180 %		
4	Tear Resistance (Film)	ASTM D 1004	Long 350 N/mm Trans 315 N/mm		
5	Adhesion to Primed Concrete	ASTM D 1000	1.90 N/mm		
6	Adhesion to Self	ASTM D 1000	1.95 N/mm		
7	Puncture Resistance	ASTM E 154	230 N 65mm		
8	Tape Strength L/T (Backing sheet of membrane)	ASTM 5147	Long 4.2 N/mm ² Trans 4.8 N/mm ²		
9	Tensile Strength Membrane	ASTM 5147	Long 4.2 N/mm Trans 4.8 N/mm		
10	Tear Resistance Membrane	ASTM 5147	Long 150 N Trans 155 N		
11	Water Resistance	ASTM D 570 After 24 hours After 35 days	0.12% <0.95% as per specification		
12	Environmental Resistance	ASTM D 543	Conforms		
13	Moisture Vapor Transmission Rate	ASTM E/96	0.28g/m ² /24 hrs		
14	Crack Bridge (min 1mm)	ASTM C 836	pass		
15	Resistance to Hydrostatic Pressure	ASTM D 5385	7.5 bar, 110psi		

Bitumat Bituseal 1500 CLX complies with the relevant sections of the following National Standards BS 8102:1990 Building Regulation 1985 Clause C4.

The information given in this Technical Data Sheet reflects typical median properties based on laboratory test, and practical experience. However, as the product is often used under conditions beyond our control, we can't warrant but the product itself.

BITUMAT COMPANY LIMITED

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