



BITUMAT
بيتومات

The Power to Perform



NRCA MEMBER



ISO CERTIFIED

FIBERLON HD

APP Modified Waterproofing Membrane
with 200 Gsm Polyester Reinforcement

DESCRIPTION

BITUMAT FIBERLON HD is a uniquely formulated prefabricated waterproofing membrane with a special multilayered design for superior pliability, tensile strength, workability and resistance to elements.

The multilayered design consists of a spunbonded polyester core coated on both sides with APP modified bitumen. The polyester core gives the membrane high tensile strength, elongation and superior lap joint strength.

Properly installed, BITUMAT FIBERLON HD forms an impervious, permanently flexible waterproof blanket which accepts normal structural movement without breaking or cracking.

USES

BITUMAT FIBERLON HD membranes are ideal for a wide range of waterproofing applications, including roofs, reservoirs, basements, tunnels and car parks.

BITUMAT FIBERLON HD may be utilized in exposed and covered applications.

OUTSTANDING FEATURES

- Total impermeability
- Excellent resistance to aging and weathering.
- Outstanding bondability and seam integrity.
- Stability at high temperatures.
- Very high resistance to impact & puncture.
- Simple, single-layer installation reduces labour & errors.
- Variety of finishes for exposed and covered applications.

GENERAL DATA

BITUMAT FIBERLON HD is an APP modified bitumen membrane with a spunbonded nonwoven polyester reinforcement, black finish with a very thin polyethylene foil on both sides or granule finish available on request.

| | |
|-------------------|------------------------------|
| Nominal Weight | : 3,4 or 5 kg/M ² |
| Nominal Thickness | : 3,4 or 5 MM |
| Nominal Roll Size | : 1 x 10 Mts. |

Reinforcement:

Robust, isotropic, spunbonded, nonwoven polyester core, **200 gsm/m²**.

FINISHES

BITUMAT FIBERLON HD is available in two basic finishes:

- Black smooth finish with polyethylene surfaces for covered applications.
- Granule surfacing for exposed applications.

QUALITY CONTROL

In addition to stringent regular tests by BITUMAT laboratory, our products are tested periodically by Independent Laboratories.

STANDARDS

BITUMAT FIBERLON HD complies with the performance requirements and tolerance levels of the listed standards. Some of which modified to better suit the various climatic conditions around the world.

1. American Society for Testing and Material ASTM D 6222 Type I.
2. European Union of Technical Agreement (UEAtc) MOAT No. 30-1984.
3. Canadian General Standard Board (CGSB 37-GP 56M - July 1980).
4. German Standard (DIN 52133).

INSTALLATION TOOLS REQUIRED:

Gas torch, Knife, Trowel, measuring tape, Marking string, Gloves.

APPLICATION

BITUMAT FIBERLON HD is installed by torch welding method, loose-laid or fully bonded to the substrate. When loose-laid, only overlaps are bonded together. Peripheres, protrusions and other flashing details are installed according to specifications.

COVERAGE RATE (Approx.)

| | |
|-----------------------------------------|-------------------------------------------------|
| (Rate may vary as per site requirement) | |
| Flat areas | : 1.13 M ² /M ² per layer |
| For 30cm. Girth Flashing: | 0.35 M ² / linear M |
| Average wastage | : 3 - 5% |

TORCHING GUIDELINES

The underside of the membrane should be torched just enough to superficially melt the bitumen. Excessive heating may damage the reinforcement. Overlaps should be re-heated from the top and re-sealed with a trowel to ensure seam integrity.

For details of installation methods and flashing requirements, consult the relevant *BITUMAT Systems Design and Installation Manual*.

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TECHNICAL DATA

MBM24 50-K R-00 00

| | Property | Typical Value | Test Method |
|-----|------------------------------------------------------------------|-------------------------------------|------------------------------|
| 1. | Softening Point, °C | 155±5 | ASTM D 36 |
| 2. | Penetration, @ 25°C., dmm | 18±5 | ASTM D 5 |
| 3. | Cold Flexibility, °C | -5 | ASTM D 5147, UEAtc |
| 4. | Reinforcement | 200 Gsm | - |
| 5. | Tensile Strength, N/5cm @ 23±2°C Longitudinal Transverse | * 950 (19 KN/m) * 750 (14 KN/m) | ASTM D 5147, UEAtc |
| 6. | Tensile Strength, N/5cm @ -18±2°C Longitudinal Transverse | * 1200 (24 KN/m) * 900 (18 KN/m) | - |
| 7. | Elongation, % @ 23±2°C Longitudinal Transverse | ** 50 ** 55 | ASTM D 5147, UEAtc |
| 8. | Elongation, % @ -18±2°C Longitudinal Transverse | ** 26 ** 28 | ASTM D 5147 |
| 9. | Tear Resistance, N Longitudinal Transverse | 450 350 | ASTM D 5147 ASTM D 4073 |
| 10. | Puncture Resistance Static Indentation Dynamic Indentation | L4 I3 | UEAtc 5.1.9. UEAtc 5.1.4. |
| 11. | Heat Resistance 115°C., 2 Hrs | No flow | ASTM D 5147, UEAtc |
| 12. | Load Strain Product @ 23±2°C Longitudinal Transverse | 47,500 41,200 | CGSB-37-GP-56M |
| 13. | Load Strain Product @ -18±2°C Longitudinal Transverse | 31,200 25,200 | CGSB-37-GP-56M |
| 14. | Lap Joint Strength N/5cm Longitudinal Transverse | 950 750 | CGSB-37-GP-56M UEAtc |
| 15. | Water Absorption, % WT @ 23°C 24 hrs. | <0.5 | ASTM D 5147 |
| 16. | Dimensional Stability % Longitudinal Transverse | ± 0.5 ± 0.5 | ASTM D 5147 |

*In accordance to the UEAtc tolerance, a variation of 20% is expected.

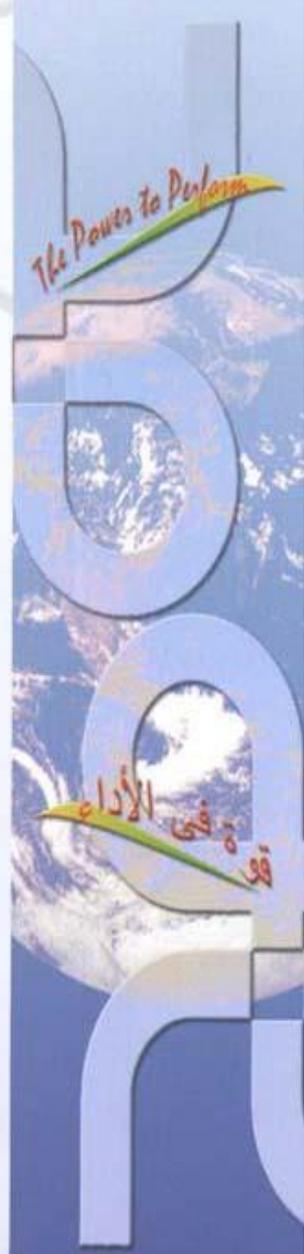
**In accordance to the UEAtc tolerance, a variation of 15% is expected.

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.

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