

MACSEAL BDM

HOT APPLIED RUBBERIZED ASPHALT WATERPROOFING/ROOFING MEMBRANE

PRODUCT DESCRIPTION

MACSEAL BDM is a hot-applied, flexible, polymer-modified asphalt waterproofing/roofing membrane. It is composed of a unique blend of engineered asphalts, virgin polymers, synthetic rubbers and reinforcing mineral fillers.

MACSEAL BDM has excellent adhesive and cohesive properties which combine to eliminate any lateral movement of water between the membrane and the substrate.

MACSEAL BDM forms a seamless continuous monolithic waterproofing membrane which is impermeable to moisture penetration and remains flexible over a wide range of temperatures.

RECOMMENDED USE

MACSEAL BDM is designed to protect structures from costly damage caused by water infiltration.

Typical applications include:

- Waterproofing concrete slab construction on highway bridge decks, parking garages, roof terraces, plaza decks, pedestrian concourses and podiums
- Single course construction such as tunnels, reservoirs, planters, foundation walls and reflective pools utilizing two course construction
- Protected, inverted membrane roofing systems
- Interlayer between concrete substrate and asphaltic concrete overlays on vehicular travelled ramps or bridge decks with excessive grade or super elevations <5%.
MCA Technical Services should be consulted on grades in excess of 15%

GENERAL PRODUCT FEATURES

- Easily applied over a wide range of temperatures with either a squeegee or a hand held wand equipped with an appropriate applicator tip
- Monolithic and seamless membranes are more reliable and impermeable than traditional “peel and stick” or “torch-on” membranes
- Can be placed at ambient temperatures as low as -18°C, which significantly extends the construction season
- Can be applied in either a single ply layer or double ply fibreglass reinforced layer for enhanced performance and resistance to traffic and high shear stress
- Must be heated in double boiler/oil-jacketed kettle

SPECIFICATIONS AND TYPICAL RESULTS

TEST	TYPICAL DATA	SPEC RANGE	
		Min	Max
Flash Point (COC), °C	275
Cone Penetration, 25°C, dmm	53	...	110
Cone Penetration, 50°C, dmm	114	...	160
Flow, 60°C, mm	0	...	3
Softening Point (R&B), °C	91
Toughness, J	17.5	5.5	...
Toughness/Peak Load Ratio	0.065	0.04	...
H ₂ O Vapour Perm., ng/Pa.s.m ²	1.5	...	1.7
Water Absorption, 96h, %	0.06
Low Temp Crack Bridging -25C	Pass
Heat Stability, 5 hours	Pass

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APPLICATION GUIDELINES

MCA Marketing should be consulted for detailed specifications on membrane application. Otherwise, please consult specification CGSB-37.50-M89 application for hot applied rubberised asphalt.

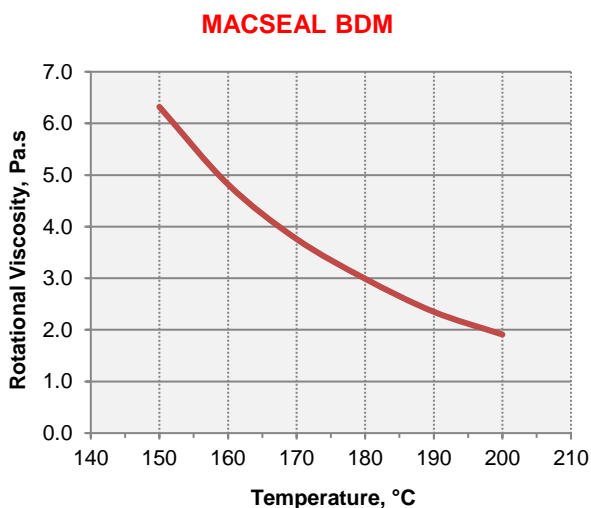
APPLICATION TEMPERATURES

- Recommended Application Temp. is 185°C (365°F)
- Maximum Safe Heating Temperature 200°C (392°F)

LIMITATIONS

- Do not apply over any type of lightweight or insulating concrete without written approval
- Not for exposed application. Not for application in totally enclosed areas with no ventilation
- Melt only in oil-jacket mechanically agitated kettles
- When paving on bridge decks waterproofed with **MACSEAL BDM**, usage of heavy construction equipment such as MTV's or heavy-duty rollers should be discussed with the engineer or with McAsphalt technical support

TEMPERATURE VISCOSITY CHART



PACKAGING, STORAGE AND HANDLING

MACSEAL BDM is available in the following packaging:

- 496 lb (225 kg) open top drums containing 10 individual pucks of roughly 50 lbs.
- 2 X 25 lb polybags in a high strength corrugated cardboard container
- Boxes should be held in a dry environment

CERTIFICATION OF QUALITY

McAsphalt Industries Limited is accredited to the quality standard **ISO 9001** and to the environmental standard **ISO 14001**.

Each lot of **MACSEAL BDM** is produced using the strictest quality, safety and environmental guidelines. Each production lot is tested to ensure it meets or exceeds all performance requirements, and it is delivered with a Certificate of Analysis.

PRODUCT SUPPORT

With the **MCA Advantage**, you get a partner and advisor who will consult with you about designs, specifications, technical services, processes and material selection. By developing innovative, custom-designed products that offer additional benefits, such as peak performance in unique conditions, improved field performance, greater environmental and health benefits, the **MCA Advantage** provides significant long-term cost savings, resulting in lower "total cost of ownership."



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