

# BEMALASTIC 1213 BDM WATERPROOFING MEMBRANE

## DESCRIPTION

**BEMALASTIC 1213 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. **BEMALASTIC 1213 BDM** has excellent adhesive and cohesive properties which combine to eliminate any lateral movement of water between the membrane and the substrate. **BEMALASTIC 1213 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

**BEMALASTIC 1213 BDM** is designed to protect structures from costly damage caused by water infiltration.

Typical applications include:

- Waterproofing concrete slab construction on highway bridgedecks, 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.

**BEMALASTIC 1213 BDM** is suitable for use between concrete substrate and asphaltic concrete overlays on vehicular travelled ramps or bridgedecks with excessive grade or superelevation <5%. Manufacturers should be consulted on grades in excess of 15%.

## APPLICABLE SPECIFICATIONS

**BEMALASTIC 1213 BDM** meets or exceeds:

- Applicable ASTM, AASHTO Standards
- CGSB-37.50 M89 (Canadian General Standards Board)
- Various Provincial, State and D.O.T. specifications.

## APPLICATION TEMPERATURES

- **Recommended Roofing Temperature 185 C (365 F)**

- **Maximum Safe Heating Temperature 200 C (392 F)**

### **APPLICATION GUIDELINES**

- Manufacturer should be consulted for detailed specifications on membrane application.
- CGSB-37.51 - M89 application for hot-applied rubberized asphalt.

### **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 agitated kettles.

**Physical Properties:  
Bemalastic 1213 BDM Flexible Waterproofing and Roofing Membrane**

<b>PROPERTIES</b>	<b>TEST METHODS</b>	<b>SPECIFICATION REQUIREMENTS</b>	<b>TYPICAL RESULTS</b>
Flash Point	CGSB-37.50-M89 ASTM D-92		275° C
Penetration	CGSB-37.50 M89 ASTM D-1 191	@ 25° C max. 110 @ 50° C max. 200	50 110
Flow @ 60° C	CGSB-37.50 M89 ASTM D- 1 191	3 mm max.	0
Toughness	CGSB-37.50 M89 Toughness min.	5.5 Joules	20 Joules
Toughness/Peak Load Ratio	Toughness/Peak Force Ratio	min. 0.040	0.065
Water Vapour Permeability	CGSB-37.50 M89 ASTM E-96 Procedure E	1.7 ng/pa.s.m <sup>2</sup>	1.5
Water Absorption	CGSB-37.50 M89 96 HRS, @ 50° C		0.06%
Low Temperature Crack Bridging Capability	CGSB-37.50 M89 @ -25° C		No adhesion loss, cracking or splitting
Heat Stability (5HRS)	CGSB-37.50		No change
Viscosity	CGSB-37.50 M89	2-15 second	8 seconds
Softening Point	ASTM D-36		85° C
Minimum Ambient Temperature for application			-18° C
Pin Holing	Max. 1		0

