

**MS 200™****Anionic Premix Grade Bitumen Emulsion**

Product Data Sheet 2014/04

**DESCRIPTION**

**MS 200™** is a specially formulated medium set anionic premix grade bitumen emulsion for the manufacture of cold asphalt mixes in a hotmix asphalt plant. The **MS 200™** residue is softer than the residue obtained from **MS 150™** and mixes prepared with this emulsion will thus have an extended stockpile life.

**USES**

**MS 200™** emulsion can be used for the manufacture of continuously or open graded cold asphalt mixes in a hotmix drum- or batch plant. Mixes made with **MS 200™** will have improved workability during winter. These mixes can be stockpiled under cover or in bags for more than three months before placing. The coldmix is ideal for pothole repairs, paving of sidewalks, driveways and parking areas.

**PROPERTIES**

- **MS 200™** emulsion residue has improved rheological behaviour at both high and low temperatures.
- Rapid coating of the aggregate particles occur due to the highly dispersed state of the bitumen component.
- Improved coating is attained at lower temperatures.
- Steam that is evolved during the mixing process displaces air from the mixer, resulting in decreased degradation of the binder.
- Lower mixing temperatures required when using **MS 200™** resulting in energy cost savings.
- No danger of overheating the binder.

**SPECIFICATIONS**

**MS 200™** emulsion is manufactured from a 70/100 penetration grade bitumen and conforms to the following specification:

EMULSION PROPERTIES	REQUIREMENT		TEST METHOD
	Min	Max	
Binder content, % m/m	67	69	ASTM D244
Residue on sieving, g/100 ml	-	0.25	SANS 4001-BT3
Viscosity @ 50°C, SFs	25	40	SANS 4001-BT4
Sedimentation after 60 rotations	Nil		SANS 4001-BT3

**DIRECTIONS FOR USE**

1. Only heat the emulsion in the storage tank to 50 - 60°C to facilitate pumping of the binder without heating the transfer lines or the binder pump.
2. Preheat the aggregate to 150 - 160°C.
3. Open the emulsion feed to the mixing drum or pugmill.
4. The exit temperature of the premix should be 100 - 110°C.
5. Tip mix on the stockpile and spread out evenly to facilitate evaporation of residual water.
6. Allow the mix to cure for approximately 10 days before use.

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