



# MS 203

## Modified Anionic Premix Grade Bitumen Emulsion

Product Data Sheet 2014/04

### DESCRIPTION

**MS 203** is a specially formulated medium set elastomer modified anionic premix grade bitumen emulsion for the manufacture of cold asphalt mixes in a hotmix asphalt plant.

### USES

**MS 203** bitumen emulsion can be used for the manufacture of continuous- or open graded cold asphalt mixes in a hotmix drum- or batch plant. Mixes made with **MS 203** will have improved flexibility and higher stiffness after placing. 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 or parking areas.

### PROPERTIES

**MS 203** has enhanced residual binder properties, while the lower viscosity of the emulsion ensures thorough coating of all the aggregates. The residual binder is less brittle at low temperatures and more resistant to flow at high in-service road temperatures, making the compacted mix less temperature susceptible.

### SPECIFICATIONS

**MS 203** conforms to the following specifications:

| 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 pug mill.
4. The exit temperature of the premix should be 100 - 110°C.
5. Tip mix onto 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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