

### PENETRATION GRADE BITUMEN (SANS 4001 BT1)

| PROPERTY |                                                                 | 10/20                   | *<br>15/25 | *<br>35/50 | 50/70   | 70/100         | *<br>150/200 | Test method                                                               |
|----------|-----------------------------------------------------------------|-------------------------|------------|------------|---------|----------------|--------------|---------------------------------------------------------------------------|
| 1)       | Penetration at 25°C/100g/5s/1/10mm                              | 10-20                   | 15-25      | 35-50      | 50-70   | 70-100         | 150-200      | EN 1426                                                                   |
| 2)       | Softening point (R&B), °C                                       | 58-78                   | 55-71      | 49-59      | 46-56   | 42-51          | 36-43        | ASTM D36                                                                  |
| 3)       | Minimum Viscosity at 60°C, Pa.s                                 | 700                     | 550        | 220        | 120     | 75             | 30           | ASTM D 4402                                                               |
| 4)       | Viscosity at 135°C, mPa.s                                       | ≥ 750                   | ≥ 650      | 270-700    | 220-500 | 150-400        | 120-300      | ASTM D 4402                                                               |
| 5)       | Flash point, °C                                                 | 245                     | 235        | 240        | 230     | 230            | 220          | ASTM D 92                                                                 |
| 6)       | Performance when subjected to the rolling thin film oven test : |                         |            |            |         |                |              | ASTM D 2872                                                               |
|          | a) Mass change, % (by mass fraction), Max.                      | -                       | 0,5        | 0,3        | 0,3     | 0,3            | 0,3          | ASTM D 2872                                                               |
|          | b) Viscosity at 60°C, % of original, Max.                       | -                       | -          | 300        | 300     | 300            | 300          | ASTM D 4402                                                               |
|          | c) Softening point (R&B), °C Min.                               | -                       | 57         | 52         | 48      | 44             | 37           | ASTM D 36                                                                 |
|          | d) Increase in softening point, °C, Max.                        | 10                      | 8          | 7          | 7       | 7              | 7            | ASTM D 36                                                                 |
|          | e) Retained penetration, % of original, Min.                    | -                       | ≥ 55       | 60         | 55      | 50             | 50           | EN 1426                                                                   |
| 7)       | Spot test, % xylene, Max.                                       | -                       | -          | 30         | 30      | 30             | 30           | AASHTO T 102                                                              |
| 8)       | Typical density at various temperatures, kg/liter :             |                         |            |            |         |                |              |                                                                           |
|          | 25°C                                                            | -                       | -          | 1,031      | 1,030   | 1,029          | 1,026        | ASTM D 3142 / D 3142 M-11                                                 |
|          | 135°C                                                           | -                       | -          | 0,956      | 0,954   | 0,953          | 0,950        | ASTM D 3142 / D 3142 M-11                                                 |
|          | 160°C                                                           | -                       | -          | 0,939      | 0,937   | 0,936          | 0,933        | ASTM D 3142 / D 3142 M-11                                                 |
|          | 175°C                                                           | -                       | -          | 0,928      | 0,927   | 0,926          | 0,923        | ASTM D 3142 / D 3142 M-11                                                 |
| 9)       | Uses                                                            | Premix Applications     |            |            |         | Spray and chip |              | <div>- No data available</div> <div>• Not Readily available special</div> |
| 10       | Cleaning and handling                                           | Refer Safety Data Sheet |            |            |         |                |              |                                                                           |

**NOTE :** This data is issued as a guide to the use of the product(s) concerned and whilst every effort is made to ensure the accuracy of the text which is in accordance with the latest technical developments, we cannot accept responsibility for any work carried out with our materials as we have no control over the method of application used or condition of site involved. In view of the constant research and development being undertaken in our laboratories we advise customers in their own interest to ensure that this data sheet has not been superseded by a more up-to-date publication. All products are sold subject to our standard conditions of sale which are available on demand.

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