

BITUMEN 100-150

(Penetration Grade)

TYPICAL PROPERTIES

| PROPERTY | UNIT | 100-150 | TEST METHODS |
|--|--------------------|--------------|-----------------|
| Penetration @25°C, 100gm, 5sec | 0.1MM | 100-150 | EN 1426 |
| Softening Point, Ring & Ball | °C | 39-47 | EN 1427 |
| Penetration Index | - | -1.5 to +0.7 | EN12591-Annex A |
| Resistance to Hardening @163°C | | | |
| - Change in mass, Max | %Wt | 0.8 | |
| - Retained Penetration, Min | 0.1MM | 43 | EN 12607-1 |
| - Softening point after hardening, Min | °C | 41 | |
| Flash Point Cleveland open cup, Min | °C | 230 | EN ISO 2592 |
| Solubility in CS ₂ , Min | %Wt | 99.0 | EN 12592 |
| Kinematic Viscosity @135°C, Min | mm ² /s | 175 | EN 12595 |
| Paraffin wax content, Max | %Wt | 4.5 | EN12606-2 |

Penetration Grade Bitumen 100/150 is produced from the vacuum distillation of crude oil and is classified according to its penetration range. Bitumen 100/150 is a thermoplastic material which softens gradually as it is heated and hardens as it is cooled. This unique temperature/viscosity relationship is important when determining its performance parameters and application temperatures. Unlike modified binders, penetration grade bitumen acts as a Newtonian fluid at high in-service temperatures, which allows one to establish a temperature/viscosity relationship. Bitumen 100/150 is used in the construction of single seals, double seals and Cape seals, either as a tack coat or penetration spray. It is also used as the base bitumen for the manufacture of the majority of emulsions and polymer modified binders. Bitumen 100/150 fulfils the requirements for paving grade bitumen in accordance with EN 12591.

Packaging: New steel drums, reconditioned steel drums or eco-friendly poly bags. Weatherproof packaging.

Storage and Handling Recommendations: Store in unopened containers. Storage temperature limits 1°C - 50°C. For normal operations, such as blending and transferring liquid bitumen, temperatures of 10°C - 40°C above the minimum pumping temperature are recommended.

Recommended Application Temperatures:

Asphalt mixing temperature : 150°C - 160°C.
Asphalt compaction temperature : 135°C - 145°C.

For further information, please contact:

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