



BUOYANCY®
IMPEX PVT. LTD.

📍 "C" Tower, 10th Floor, Hampton Park,
Vesu, Surat 395007 Gujarat, India

☎ +91 99250 53193

+91 99250 53069

✉ info@buoyancyimpex.com

buoyancyinc@gmail.com

Penetration Grade – Bitumen 100/150

Penetration Grade Bitumen 100/150 is commonly used in road construction, surfacing and some industrial applications. All penetration grades supplied by BUOYANCY® are petroleum grade and manufactured from fractional / vacuum distillation of crude oil produced from vacuum residue feedstock. They are fully compliant to ASTM and AASHTO, equivalent to EN and BS international standards and test methods.

Penetration Grade bitumen are specified by the penetration and softening point test. The penetration grade bitumen has a thermoplastic property which causes the material to soften at high temperatures and to harden at lower temperatures. 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 asphalt mixes, cutback bitumen, emulsions and polymer modified binders.

| Properties | Units | Results | Test Methods |
|--------------------------------------|--------------------|-------------|--------------------|
| Penetration @25°C, 100g/ 5s | 0.1mm | 100-150 | EN 1426 |
| Softening Point, Ring & Ball | °C | 39-47 | EN 1427 |
| Resistance to Hardening@163°C | | | |
| Change in Mass | %wt | 0.8 | EN 12607-1 |
| Retained Penetration@25°C | 0.1mm | 43 | EN12607-1 |
| Softening point after hardening, Min | °C | 41 | EN12607-1 |
| Other Properties | | | |
| Flash Point Cleveland open cup, Min | °C | 230 | EN ISO 22592 |
| Solubility in CS ₂ ,Min | %Wt | 99.0 | EN 12592 |
| Kinematic viscosity @135 °C | mm ² /s | 175 | EN12592 |
| Paraffin Wax Content, Max | %Wt | 4.5 | EN12606-2 |
| Penetration Index | - | -1.5 to 0.7 | EN12591-Annexure A |

Packing available: 150 ± 3 Kg, 180 Kg ± 3Kg, 200 Kg ± 3Kg Net weight Steel drums and/or 300 Kg, 1000 Kg Polybags / Jumbo bags

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.

Accredited: ISO9001:2015 | ISO 14001:2015 | ISO45001:2018