

Bitumen Penetration Grade 80/100

Penetration grade paving bitumen produced from the vacuum distillation of crude oil. Softer binder for hot mix asphalt in cool and cold climates.

Typical Properties (Guaranteed Limits)

Property	Specification	Test Method
Penetration @ 25 °C	80 - 100 (0.1 mm)	ASTM D-5
Softening Point (ring and ball)	min 42 °C	ASTM D-36
Density @ 25 °C	1010 - 1050 kg/m ³	ASTM D-70 / D-3289
Ductility @ 25 °C	min 100 cm	ASTM D-113
Loss on Heating	max 0.5 %wt	ASTM D-6
Drop in Penetration after Heating	max 20 %	ASTM D-5 / D-6
Flash Point	min 232 °C	ASTM D-92
Solubility in Trichloroethylene	min 99.0 %wt	ASTM D-4
Spot Test	negative	AASHTO T-102
Viscosity @ 60 °C	800 - 1200 P	ASTM D-2171
Viscosity @ 135 °C	min 250 cSt	ASTM D-2170

Typical Applications

Hot mix asphalt and asphalt concrete for road pavements and highways; binder and wearing courses; surface dressing and chip sealing; cold-region paving and maintenance mixes; waterproofing membranes and roofing felt; industrial sealing and coating compounds. The preferred paving grade for cool and cold climates, where a softer binder resists low-temperature cracking.

Packing

1 MT jumbo bags (FIBC, polyethylene lined) or steel barrels. Palletized loading available. HS Code: 2713 20.

Storage & Handling

Store packed product on level, dry ground under cover, protected from moisture, standing water and direct sunlight. Do not stack above the supplier-marked limit. Where the product is melted or held hot, hold it at the lowest workable temperature and avoid prolonged storage at elevated temperature, which hardens the binder. Keep water out of heated vessels and storage tanks: trapped water flashes to steam and causes violent foaming and boil-over.

Application suggestions are indicative; final suitability for a specific process, climate or pavement design is to be validated by the customer. The values above are guaranteed specification limits. A batch Certificate of Analysis with measured results accompanies every shipment. Independent pre-shipment inspection (e.g. SGS) is available on request. This product is handled hot and presents a severe burn hazard — refer to the Safety Data Sheet before use.