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Bitumen MC 800 TDS

Product Description

Bitumen MC 800 is a medium-curing cutback asphalt produced by blending paving-grade bitumen with a controlled petroleum distillate. The solvent reduces the binder viscosity during handling and application. After placement, the volatile portion gradually evaporates and leaves a durable asphalt residue.

MC 800 is primarily selected when a project requires a heavier-bodied cutback binder than MC 250 while maintaining sufficient workability for mixing, coating, pumping, and placement.

Technical Specifications

Property	Test Method / Basis	Typical Requirement
Product	—	Cutback Bitumen MC 800
Grade	—	MC 800
Type	—	Medium-Curing Cutback Asphalt
Kinematic Viscosity at 60°C	ASTM D2170 or equivalent	800–1,600 cSt
Flash Point, Tag Open Cup	ASTM D3143 / applicable specification	Min. 66°C
Water Content	ASTM D95 or equivalent	Max. 0.2%
Distillate to 225°C	Applicable specification	Report / grade dependent
Distillate to 260°C	Applicable specification	Max. 35%
Distillate to 315°C	Applicable specification	45–80%
Residue from Distillation to 360°C	Applicable specification	Min. 75%
Penetration of Residue at 25°C	ASTM D5	Specification dependent
Ductility of Residue at 25°C	ASTM D113	Min. 100 cm
Solubility of Residue	ASTM D2042	Min. 99%
Appearance	Visual	Dark brown to black
Solubility in Water	—	Insoluble
Density	—	Batch dependent

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Key Performance Characteristics

MC 800 offers:

- higher viscosity than MC 250;
- strong aggregate coating;
- controlled medium-rate curing;
- practical workability during mixing;
- substantial residual binder content;
- suitable film thickness for heavier cutback applications;
- good suitability for stockpile and maintenance mixtures where approved.

Typical Applications

MC 800 Bitumen uses may include:

- stockpile patching mixtures;
- road repair materials;
- maintenance mixes;
- premix applications;
- surface-treatment work;
- aggregate coating;
- approved cold or warm mixing systems;
- road construction projects requiring medium-curing cutback asphalt.

Actual use should always follow project specifications and local road authority requirements.

Viscosity

The defining property of MC 800 is its kinematic viscosity.

Typical range: 800–1,600 cSt at 60°C.

The viscosity affects:

- pumping;
- mixing;
- spray behavior;
- coating thickness;
- transfer rate;
- binder distribution.

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Temperature strongly influences flow characteristics. Controlled heating may therefore be necessary during handling, but operators should avoid excessive temperatures.

Curing Behavior

MC 800 cures through gradual evaporation of the petroleum distillate.

The curing rate depends on:

- ambient temperature;
- wind;
- aggregate porosity;
- application thickness;
- binder dosage;
- ventilation;
- surface exposure.

For this reason, no single curing time applies to every project.

Aggregate Compatibility

For best performance, aggregates should be:

- clean;
- appropriately graded;
- substantially free from dust;
- suitable for bituminous coating;
- within the moisture limits required by the mix design.

Aggregate absorption and surface area can significantly change the required binder dosage.

Packing

Available packing can include:

- steel drums;
- bulk tanker supply;
- other approved industrial packaging where suitable.

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Packing selection depends on order quantity, destination, transport regulations, and customer requirements.

Storage

Store MC 800 in closed, compatible petroleum-product tanks or containers.

Keep away from:

- flames;
- sparks;
- strong oxidizers;
- uncontrolled heat;
- water contamination.

Avoid excessive or prolonged heating because it may accelerate solvent loss and change product viscosity.

Handling

Use suitable pumps, hoses, valves, and transfer equipment designed for hydrocarbon products.

Workers should use:

- gloves;
- eye protection;
- protective clothing;
- suitable respiratory protection when ventilation is insufficient.

Quality Control

For each shipment, buyers should review:

- Certificate of Analysis;
- viscosity;
- flash point;
- distillation profile;
- residue percentage;
- ductility;
- solubility;

- water content.

The **MC 800 Bitumen technical data sheet** gives general specification limits, while the COA should provide actual batch results.

Commercial Information

Product quotations can vary according to:

- quantity;
- drum or bulk packing;
- raw-material costs;
- destination;
- freight;
- Incoterm;
- inspection requirements;
- payment terms.

For project approval, buyers should state the required standard, quantity, destination, packing, and delivery terms before ordering.

Note: The above values are typical specification values for MC 800 and should be confirmed against the applicable contract standard and shipment-specific COA before use.