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Chemical Production Co.Ltd

Bitumen MC 70 TDS

Technical Data Sheet

Product Name: Bitumen MC 70
Product Type: Medium Curing Cutback Bitumen
Application: Prime coat, road base preparation, pavement construction, and road maintenance

Technical Specifications

Property	Typical Specification
Kinematic Viscosity at 60°C	70–140 cSt
Flash Point, Tag Open Cup	Min. 38°C
Water Content	Max. 0.2%
Distillate to 225°C	Max. 20 vol.%
Distillate to 260°C	20–60 vol.%
Distillate to 315°C	65–90 vol.%
Residue from Distillation to 360°C	Min. 55 vol.%
Penetration of Distillation Residue at 25°C, 100 g, 5 sec	120–250 dmm
Ductility of Distillation Residue at 25°C	Min. 100 cm
Solubility of Distillation Residue in Trichloroethylene	Min. 99.0%
Appearance	Black Viscous Liquid
Curing Type	Medium Curing
Solubility in Water	Practically Insoluble

Product Description

Bitumen MC 70 is a medium-curing cutback bitumen manufactured by blending petroleum bitumen with a suitable hydrocarbon distillate. The controlled addition of solvent reduces the viscosity of the binder and makes it easier to spray and penetrate granular road surfaces.

After application, the volatile components gradually evaporate. Consequently, the remaining bituminous residue provides adhesion and prepares the road base for subsequent asphalt layers.

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Main Applications

Bitumen MC 70 is commonly used for:

- Prime coat applications
- Granular base preparation
- Road construction
- Asphalt pavement preparation
- Surface stabilization
- Selected road maintenance projects

Its viscosity allows good penetration into porous base materials while maintaining sufficient binder content after curing.

Application Properties

MC 70 offers several useful technical characteristics:

- Controlled medium curing rate
- Good penetration into granular surfaces
- Easy spraying and distribution
- Strong adhesion after curing
- Lower application viscosity than paving-grade bitumen
- Effective preparation of untreated road bases

Application rates should be determined according to surface porosity, aggregate type, temperature, project specifications, and required penetration depth.

Storage

Store Bitumen MC 70 in suitable tanks or sealed containers designed for petroleum-based products.

Keep the material:

- Away from flames and sparks
- Away from strong oxidizing materials
- In adequately ventilated storage areas
- Within recommended handling temperatures
- Protected from contamination and moisture

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Avoid excessive or uncontrolled heating.

Handling

Personnel should use appropriate personal protective equipment during loading, unloading, heating, spraying, and application.

Avoid prolonged skin contact and unnecessary inhalation of vapors.

Because MC 70 contains volatile petroleum fractions, users should follow the current product SDS and all applicable fire-safety regulations.

Packaging

Bitumen MC 70 can typically be supplied in:

- New steel drums
- Bulk tankers
- ISO tanks
- Project-specific bulk packaging

Available packaging may depend on order quantity, destination, and transportation requirements.

Quality Control

Each shipment should be tested according to the agreed specification. Typical quality control parameters include:

- Kinematic viscosity
- Flash point
- Water content
- Distillation characteristics
- Residue penetration
- Ductility
- Solubility

A **Certificate of Analysis (COA)** should confirm the actual test results for each supplied batch.

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Important Note

The values in this TDS represent typical commercial specifications for **Bitumen MC 70**. Actual limits may vary depending on the applicable ASTM, AASHTO, national road authority, refinery specification, or customer requirement.

For purchasing and project approval, always refer to the latest supplier-issued TDS and batch-specific COA.

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