

CUTBACK BITUMEN MC-70

Liquid Bitumen

DESCRIPTION

Cutback Bitumen (Liquid Bitumen) is a mixture of petroleum solvent & bitumen. Typical solvents include naphtha (gasoline) and kerosene. The type of solvent controls the curing time and its ultimate strength.

Solvent is added to reduce the viscosity of the bitumen temporarily so that it can penetrate pavements more effectively or to allow spraying at temperatures that are cold for successful sprayed sealing. The solvent will evaporate after the spraying to leave the remaining material similar in hardness to that of the original bitumen.

FEATURES

- Cutbacks have higher residual bitumen percentage than emulsions, typically over 80 percent compares with 65 percentages for bitumen emulsion.
- Higher Bitumen cement left on the roadway after curing, for the same volume of binder applied.

APPLICATION

Bitumen Cutback is used for a wide range of application which includes the following:

- **Priming & Seal Coat** - Cutback bitumen's suitable for priming are also used for seal coats, which is applied to an underlying surface to help with adhesion of subsequent asphalt layer. A typical rate of application between 0.2 to 0.4 litres/sq. m.
- **Primer sealing** - Where the temperatures are too cool for an effective priming, or where traffic is likely to upset a primed surface before the final seal sprayed, a primer seal can be used to give adequate protection of the pavement for periods up to 6 - 12 months.

Properties	VALUES	STANDARD
	MC-70	
	Min./Max	
Kinematic viscosity @ 60°C (mm ² /s) (cSt)	70/140	ASTM D-445
Flash point (TOC) (°C)	Min.38	ASTM D-3143
Distillate: Distillate, Volume percentage of total distillate to 360°C PASS		
to 225°C	25 - 60	ASTM D-402
to 260°C	20 - 83	ASTM D-402
to 316°C	65 - 95	ASTM D-402
Residue from distillation to 360°C, percentage volume by diff.	55	ASTM D-402
Test on residue from distillation:		
Penetration @ 25°C, 100g, 5s	120 - 130	ASTM D-5
Ductility @25°C, cm/minute	Min 100	ASTM D-113
Solubility in Trichloroethylene, %	99	ASTM D-2042
Water content, % volume	Max 0.20	ASTM D-95

#Cutback bitumen MC-70 conforms to the requirements of ASTMD-2027/ASTMD-2027M-13.

Cutback bitumen's suitable for primer sealing can also be used in the manufacture of Pre- mix asphalt, which is used in patch repairs.

- Sprayed sealing- Cutback bitumen's are used extensively in spray sealing applications, particularly in cooler weather where they improved initial stone retention due to their low viscosity.

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SUPPLY

Steel drums (palletized) Bulk tankers

CLEANING

Tools: Clean with Kerosene

Hand: Use a hand cleanser or kerosene followed by soap and water.

TECHNICAL SUPPORT

International Insulation Company (IIC) - Bitugulf technical support team consist of expert engineers offers a comprehensive service support to specifiers, end users and contractors, and on-site technical assistance.

HEALTH, SAFETY AND ENVIRONMENT

- Always wear suitable personal equipment (PPE). Full skin protection is required to avoid accidental burns when transferring or handling bitumen.
- Always prevent contact between water and hot bitumen by checking the contents of the previous load before loading bituminous products into bulk tankers and by strictly follow the procedures to avoid frothing and boil over of tanks.
- Avoid exposure to fumes by standing back on the gantry or up wing until the vapours have dispersed.
- Minimise bitumen fumes by heating bitumen and asphalt products to the recommended temperatures.
- Minimise the use of diesel when cleaning equipment as this contributes to the bitumen fume. Cutbacks are sometimes used at a temperature above their flash point, so care must be taken regarding the products' flammability. Ensure personnel are well trained in the correct handling & safety procedures.

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Note: The technical data provided reflects typical properties based on laboratory tests and practical experience, subject to UEAtc tolerance levels. While we cannot guarantee performance under all conditions, further details are available upon request, with a standard variation of up to 20%.



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