

CATIONIC BITUMEN EMULSION

BITUMENA K1 – 60

BITUMENA K1-60 is a cationic, low viscosity, rapid setting bitumen emulsion designed for use as a tack coat, base stabilization, fog sealing, dust control and specialty applications. It is soluble in water, has faint petroleum odor and is non- flammable.

USES

BITUMENA K1-60 is mainly used for tack coat to provide bond between existing surface and overlays. It could be used for patching, surface dressing and other similar operation.

STANDARD COMPLIANCE

This range of cationic emulsions are specially designed and formulated to BS 434 and ASTM D 2397.

APPLICATION

For large projects, BITUMENA K1-60 is usually sprayed directly from the road tanker. The nozzle size and speed of the tanker movement determines the rate of spray.

DIRECTION FOR USE:

1. No precoating of stone necessary. Can be used with slightly damp /dusty stone.
2. Apply with hand sprayer at ambient temperature or conventional distributor at a binder spray temperature of 600C. The minimum road surface temperature should be 100C and rising.
3. No heating of the product during storage: only prior to application. Product should be circulated and agitated from time to time for short periods only. Can be stored for long periods at ambient temperature without risk of settlement.
4. Open to traffic once sufficient cohesion development has occurred between binder and stone.
5. If diluting with water, first check the compatibility of the water with the emulsion.

DILUTION

BITUMENA K1-60 is recommended for spraying as it is supplied and not to be diluted with water.

PACKING

Bulk & 200 Kg. Drum

STORAGE/SHELF LIFE

The water-based emulsion should not be exposed to freezing temperatures or overheating. The cationic emulsion is a chemically stabilized system, so care should be taken not to upset the chemical balance by causing contamination with chemicals, over- exposure to air, or adverse mechanical or thermal conditions. Before being filled in tanks and trucks, it should be examined for possible contaminants.

CLEANING

Tools may be cleaned with water as long as the product is wet. Once dry, by mechanical means only.

TECHNICAL SERVICES

Technical assistance and information are available by calling Mena Energy or Sustainable Road Solutions on specific application.

RECOMMENDED TEMPERATURES

Temperatures	MIN	MAX
Storage	10 ^o C	60 ^o C
Application	20 ^o C	70 ^o C

CATIONIC RAPID SETTING BITUMEN EMULSION

BITUMENA CRS-1

Typical Properties				
Characteristics	Test Method	Unit	Min	Max
Residue on 150 µm BS sieve (gm per 100 ml)	BS 434 - 1	gm per 100 ml	-	0.15
Residue on 750 µm BS sieve (gm per 100 ml)	BS 434 - 1	%	-	0.05
Binder Content	BS 434 - 1	%	57	-
Viscosity	BS 434 - 1	Engler 20° C	6	9
Coagulation of Emulsion at low temperature	BS 434 - 1	-	NIL	
Storage Stability (short period test)	BS 434 - 1	-	-	60
Storage Stability (long period test)	BS 434 - 1	%	-	2
Particle Charge test	BS 434 - 1	-	Positive	

HEALTH AND SAFETY

Use normal safety precautions. Wear rubber hand gloves, safety shoes and safety goggles while using and handling the product. Avoid contact with skin and eyes. In case of accidental contact with eyes, wash with plenty of water and seek medical treatment immediately. Do not store near food, beverages or smoking materials. Avoid personal contact with hot material. Avoid breathing vapors. Always wear protective equipment and clothing when handling hot asphalt.

LEGAL NOTES: MENA ENERGY reserves the right to change or modify the data without prior notice. All reasonable care has been taken in compiling the data that to the best of our knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with MENA ENERGY



recommendations is accurate and true. All recommendations are made in good faith. No responsibility can be accepted by us and no warranty is implied with regards to any recommendations made in this data sheet, since the conditions of actual use, method of application and the labour involved are beyond our control.