

CATIONIC BITUMEN EMULSION

BITUMENA CRS-1

BITUMENA CRS1 is a Cationic rapid setting asphalt emulsion which is recommended for use as an adhesion promoter (tack-coat) between the two layers of asphaltic concrete used in road construction.

FEATURES

- Cold applied and no heating required
- Easy to apply
- Low temperature curing.
- Environmental friendly.

USES

BITUMENA CRS-1 is recommended for use as tack coat between the two layers of asphaltic concrete in road construction. It's a cold applied product does not requires heating before spraying.

STANDARD COMPLIANCE

The product complies with the specification as per ASTM D 2397 and AASHTO M208

APPLICATION

For large projects, BITUMENA CRS-1 is usually sprayed directly from the road tanker. The nozzle size and speed of the tanker movement determines the rate of spray. Usually the speed is adjusted in such a way that the spray rate remains between 0.3 – 0.6 Kg/m

DILUTION

CRS-1 is recommended for spray application as it is supplied and not recommended to dilute it with water.

PACKING

Bulk & 200 Kg. Drum

STORAGE/SHELF LIFE

The water-based emulsions 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 and cause 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. The shelf life is up to 12 months when stored as per manufacturer recommendation.

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 100C 600C APPLICATION 100C 550C

Temperatures	MIN	MAX
Storage	10° C	60° C
Application	10° C	55° C

CATIONIC RAPID SETTING BITUMEN EMULSION BITUMENA CRS-1

Typical Properties				
Characteristics	Test Method	Unit	Min	Max
Saybolt Furol Viscosity @ 500C	ASTM D 7496	Sec	20	100
Storage Stability Test, 24 hours	ASTM D 6930	%	-	1
Sieve Test	ASTM D6933	%	-	0.1
Particle Charge Test	ASTM D7402	Positive		
Demulsibility, 35ml, 0.8 % dioctyl sodium sulfosuccinate	ASTM D244	%	40	-
Residue by Distillation	ASTM D 6997	%	60	-
Test on residue from Distillation				
Penetration @ 250C (100gm) 5 sec	ASTM D5	dmm	100	250
Ductility @ 250C, 5 cm/min	ASTM D113	Cm	40	
Solubility in Trichloroethylene	ASTM D 2042	%	97.5	-

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.