

CATIONIC BITUMEN EMULSION

BITUMENA CSS-1H

BITUMENA CSS-1H is a cationic, low viscosity, slow 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.

FEATURES

BITUMENA CSS-1H is an ideal product for road maintenance applications and prime coating on highly porous surface.

- Cold applied and no heating required
- Easy to apply
- Low temperature curing
- Penetrates the cracks, increases the strength of layers
- High adhesive property
- Environment friendly

USES

BITUMENA CSS-1H is mainly used for patching, grouting, sub-base, surface dressing and sealing.

- Used for fog seal, slurry seal and premix seal coat
- Used for prime coating of highly porous surface
- Used for tack coat application

STANDARD COMPLIANCE

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

APPLICATION

For large projects, BITUMENA CSS-1H is usually sprayed directly from the road tanker. The nozzle size and speed of the tanker movement determines the rate of spray.

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.

CATIONIC RAPID SETTING BITUMEN EMULSION BITUMENA CRS-1

Typical Properties				
Characteristics	Test Method	Unit	Min	Max
Viscosity, Saybolt Furol at 25°C	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	-
Cement Mixing Test	ASTM D-6935	%		2.0
Residue by Distillation	ASTM D 6997	%	57	-
Test on residue from Distillation				
Penetration,25°C[77°F],100g,5s	ASTM D5	0.1mm	40	90
Ductility,25°C[77°F],5cm/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.