



BUOYANCY[®]
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Bitumen Emulsion – CMS-2/MS-2K

Bitumen Emulsion CMS-2 exported by BUOYANCY[®] is fully compliant to AASHTO M208-16, ASTM D2397-13, ASTM D977-12 and EN 13808-2005 standards. Bitumen emulsions CMS-2/MS-2K is medium setting which containing minimum 65% Bitumen. It is specially designed water based Bitumen Emulsion with moderate viscosity and setting time. This makes it a perfect product for premixing applications. It is chocolate brown in color and is a free flowing liquid at ambient temperature. It has a positive charge and hence a direct and very rapid reaction between the emulsion and an aggregate or pavement is possible.

Properties	Min	Max	Test Method
Test on Emulsions			
Viscosity, Saybolt Furol at 25 °C, SFS	-	-	ASTM D7496
Viscosity, Saybolt Furol at 50 °C, SFS	50	450	ASTM D7496
Storage stability test, 24-h, %	–	1	ASTM D6930
Demulsibility, 35 ml, 0.8% Diocetyl Sodium Sulfosuccinate			ASTM D6936
Coating ability and water resistance			
Coating	Good		ASTM D244
Dry aggregate coating	Fair		ASTM D244
After spraying coating	Fair		ASTM D244
Wet aggregate	Fair		ASTM D244
Particle charge test	positive		ASTM D244
Sieve test, %	–	0.1	ASTM D6933
Cement mixing test, %		-	ASTM D6935
Distillation			
Oil Distillate by Volume of Emulsion %		12	
Residue, %	65	–	ASTM D244
Test on residue from distillation test			
Penetration, 25°C (77°F), 100 g, 5 s	100	250	ASTM D5
Ductility, 25°C (77°F), 5 cm/min, cm	40	–	ASTM D113
Solubility in trichloroethylene, %	97.5	–	ASTM D2042

Advantages

- 1) No heating required thus eco-friendly and Cost and energy efficient
- 2) Easy and even mixing and Low temperature curing and Minimum preparation time for surface repair
- 3) High adhesive properties and Firm patch
- 4) Resistant to stripping of water and Bonds well with cool, damp surfaces.

Accredited: ISO9001:2015 | ISO 14001:2015 | ISO45001:2018

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Applications

Bitumen Emulsion CMS-2/MS-2K is ideally suited for Patch Repairing & Pot Hole Repairing. The procedure consists of following steps

- 1) Blow off water and debris from the pot hole.
- 2) Cut to rectangular shapes with all sides vertical
- 3) Remove loose material, if any
- 4) Spray tack coat of asphalt emulsion on all the side and bottom
- 5) Mix prepared of clean (preferably washed) and dry aggregates with HPCPL MS cationic bitumen emulsion
- 6) Typically, 13.2 mm and 11.2 mm sized aggregates mixed in 2:1 ratio
- 7) HPCPL MS cationic bitumen emulsion content of approximately 7% by weight of aggregates works best
- 8) Mix aggregates and emulsion properly to ensure good and uniform coating
- 9) Mix till entire emulsion is broken (turn to black in color)
- 10) Fill the premix immediately into the pot hole up to a level slightly higher than the adjoining road surface and roll properly
- 11) Open the repaired pot hole to traffic as soon as workers and equipment are clear

For economical and fast construction of wearing course, emulsion is used for Premix Carpet.

Recommended rate of application

Typical rate of application Bitumen Emulsion MS for Patch Repairing/Pot Hole Repairing is 7 % by weight of aggregates.

Tack Coat CMS-2/ MS-2K cationic bitumen emulsion can be used at ambient temperature at the spray rate of 0.25 to 0.70 liter per square meter (0.05 to 0.15 gallon per square yard).

Packaging

- 1) Bulk as IBC Tank, Flexi Tank
- 2) Reconditioned steel drums Net Weight: 200 ± 3 Kg
- 3) New steel drums Net Weight: 200 ± 3 Kg

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