



**BUOYANCY**<sup>®</sup>  
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## Bitumen Emulsion – CMS-2H

Bitumen Emulsion CMS-2H exported by BUOYANCY<sup>®</sup> is fully compliant to AASHTO M208-16, ASTM D2397-13, ASTM D977-12 and EN 13808-2005 standards. Bitumen emulsions CMS-2H is a cationic medium setting bitumen emulsion that contains 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. This high quality bitumen emulsion makes it possible to fill potholes or carry out patch repair with open graded cold premix made on-site. The methods typically used for the repair of potholes using asphalt emulsions are throw-and-roll and full-depth removal and replacement.

Properties	Min	Max	Test Method
<b>Test on Emulsions</b>			
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
<b>Coating ability and water resistance</b>			
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
<b>Distillation</b>			
Oil Distillate by Volume of Emulsion %		12	
Residue, %	65	–	ASTM D244
<b>Test on residue from distillation test</b>			
Penetration, 25°C (77°F), 100 g, 5 s	40	90	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
- 3) High adhesive properties and Firm patch
- 4) Resistant to stripping of water Bonds well with cool, damp surfaces.

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



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## Applications

Bitumen Emulsion CMS-2H 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 track 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 of Bitumen Emulsion CMS-2H for Patch Repairing/Pot Hole Repairing is 7 % by weight of aggregates.

## 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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