



BUOYANCY[®]
IMPEX PVT. LTD.

📍 "C" Tower, 10th Floor, Hampton Park,
Vesu, Surat 395007 Gujarat, India
☎ +91 99250 53193
+91 99250 53069
✉ info@buoyancyimpex.com
buoyancyinc@gmail.com

Bitumen Emulsion – CSS-1H

Emulsion Bitumen CSS-1H exported by BUOYANCY[®] is fully compliant to **AASHTO M208-16, ASTM D2397-13, ASTM D977-12 and EN 13808-2005 standards**. A bitumen emulsion is mainly a stable mixture of asphalt cement; water and an emulsifying agent where the bitumen droplets are suspended in water with the aid of an emulsifier. This aqueous solution can be pumped into tanks for storage, mixed with aggregates to be applied to pavement, and can be used in several different ways. Bitumen emulsions break if it's upon contact with aggregates (sand, filler, stones, etc.) when mixing or after being sprayed onto a surface. The terminology "breaking" is used to describe the process in which water separates from bitumen after the asphalt emulsion is applied or mixed.

Properties	Min	Max	Test Method
Test on Emulsions			
Viscosity, Saybolt Furol at 25 °C, SFS	20	100	ASTM D7496
Viscosity, Saybolt Furol at 50 °C, SFS	-	-	ASTM D7496
Storage stability test, 24-h, %	–	1	ASTM D6930
Demulsibility, 35 ml, 0.8% Dioctyl Sodium Sulfosuccinate			ASTM D6936
Coating ability and water resistance			
Coating			
Dry aggregate coating			
After spraying coating			
Wet aggregate			
Particle charge test		Positive	ASTM D244
Sieve test, %	–	0.1	ASTM D6933
Cement mixing test, %		2.0	ASTM D6935
Distillation			
Oil Distillate by Volume of Emulsion %			ASTM D6997
Residue, %	57	–	ASTM D244
Test on residue from distillation test			
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) Environment friendly and no heating requires, cost efficient & Bound well with cool, damp surfaces
- 2) High adhesive properties and Low temperature curing
- 3) Penetrate the cracks and impart strength to the layers

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



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Applications

Bitumen Emulsion CSS-1H is ideally suited for Prime Coat application on high porous surfaces like WBM. It can also be used as Fog Seal Application, for pavement bases and surfaces, Plant mix (cold) with dense graded aggregate and sand Mixed-in-place, Sandy soil and Slurry seal

Bituminous applications

- 1) Fog Seal
- 2) Prime coat-penetrable surface
- 3) Tack coat
- 4) Dust Binder
- 5) Mulch Treatment
- 6) Crack filler

Recommended rate of application

Bitumen Emulsion CSS-1H ASTM is designed for use in slurry seals and for cold storable mixtures for patching. They are designed for soil stabilization and also suitable for use with cold recycling. These emulsions are tailor made as per quality of aggregates and local site conditions.

Application	Quantity in Kg/10 m ² Area
Fog Seal	5 to 10
Slurry Seal	10 to 12
Premix Seal Coat	12 to 15

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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