



BUOYANCY®
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Bitumen Emulsion -CSS-1/SS-1K

Emulsion Bitumen CSS-1 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. The main characteristic of all Bitumen emulsion is to eventually "break," independently 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.

Bitumen emulsions CSS-1/SS-1K is cationic bitumen emulsion containing minimum 57% bitumen. It's specially designed water based Bitumen Emulsion with low viscosity and extended setting time that makes it an ideal product for prime coating on high porous surfaces. It is dark brown in color and is a free flowing liquid at ambient temperature. Prime coat SS-1K / CSS-1 is a low viscosity emulsion used mainly for prime coating in place of cutback asphalt.

Properties	Min	Max	Test Method
Test on emulsions			
Viscosity, Saybolt Furol at 25 °C, SFS	20	100	ASTM D7496
Storage stability test,24-h%	-	1	ASTM D6930
Demulsibility, 35 mL, 0.8 % dioctyl sodium sulfosuccinate, %	-	-	ASTMD 6936
Coating ability and water resistance			
Particle charge test	Positive		ASTM D7402
Sieve Test	-	0.10	ASTMD 6933
Cement Mixing Test %		2.0	ASTMD 6935
Distillation			
Residue %	57	-	ASTM D6977
Oil distillate, by volume of emulsion, %	-	-	ASTM D6977
Tests On residue from distillation Test			
Penetration, 25°C (77°F), 100 g, 5 s	100	250	ASTM D 5
Ductility, 25°C (77°F), 5 cm/min, cm	40	-	ASTMD 113
Solubility in trichloroethylene, %	97.5	-	ASTMD 2042

Advantages

- 1) Environment friendly and No heating requires, cost efficient
- 2) Bound well with cool, damp surfaces
- 3) High adhesive properties and Low temperature curing
- 4) Penetrate the cracks and impart strength to the layers

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



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Applications

CSS-1 is an absorptive surface material (like low to medium high porosity wet mix macadam or water bound macadam), designed to penetrate, plug the capillary voids in the surface, bond and stabilizes the existing surface and to promote adhesion between it and the construction course that follows. BS group Bitumen Emulsion CSS1 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, Dense-graded aggregate, Sand, Sandy soil, 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

Asphalt Emulsion CSS1 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 m2 Area
Fog Seal	5 to 10
Slurry Seal	10 to 12
Premix Seal Coat	12 o 15

Packing for Bitumen Emulsion CSS-1 available as

- 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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