

BS group Bitumen Emulsion CSS-1h

Cationic Bitumen Emulsion Slow Setting



Introduction

BS group bitumen emulsion CSS-1h is a cationic slow setting bitumen emulsion that contains 57% bitumen. Emulsified asphalt CSS-1h is 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 chocolate brown in color and is a free flowing liquid at ambient temperature.

Typical properties of CSS-1h

BS group asphalt emulsion CSS-1h is manufactured strictly as per ASTM D2397-13 AASHTO M208-16 or IS 8887: 2004.

Property	Min	Max	Test Method	
Viscosity, Saybolt Furol at 25°C, SFS	20	100	ASTM D7496	
Storage stability test, 24-h, %	-	1	ASTM D6930	
Particle charge test	positive	positive	ASTM D7402	
Sieve test, %	-	0.1	ASTM D6933	
Cement mixing test,%	-	2	ASTM D6935	
Distillation:				
Oil distillate, by volume of emulsion, %	-	-	ASTM D6997	
Residue, %	57	-	ASTM D6997	
Tests on residue from distillation test:				
Penetration, 25°C (77°F), 100g, 5s	40	90	ASTM D5	
Ductility, 25°C (77°F), 5cm/min, cm	40	-	ASTM D113	
Solubility in trichloroethylene, %	97.5	-	ASTM D2042	

Advantages

At the following you can find some advantages of this product:

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



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Applications

BS group 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 both dense-graded aggregate and sand

Mixed-in-place:

- Dense-graded aggregate
- Sand
- Sandy soil
- Slurry seal

Bituminous applications

- Fog Seal
- Prime coat-penetrable surface
- Tack coat
- Dust Binder
- Mulch Treatment
- Crack filler

Recommended rate of application

Bitumen Emulsion CSS1h 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 to 15

To ensure best results

- Use without diluting Bitumen Emulsion with water
- Use at ambient temperature
- Roll the Bitumen Emulsion drums to and fro motion at a distance of minimum 5 meter



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Handling and safety

- Contains petroleum distillate; flammable: keep away from open fire, sparks or other ignition sources; wear protective clothing, gloves and goggles.
- Fire flammable when wet, flash point 40°C.
- Skin –avoid repeated or prolonged contact, if occurs remove with hand cleaner that removes oil or grease, then clean with soap and water.
- Eyes contact could cause irritation, if contact occurs flush immediately with clean water Inhalation can cause dizziness, move immediately in fresh air if dizzy and if breathing difficulty persists administer oxygen.

Cleaning

Tools: Clean with kerosene.

Hands: Use a hand cleanser or kerosene followed by soap and water.

Availability

BS group asphalt emulsion CSS1h is available in:

- Bulk
- IBC Tank, Flexi Tank
- Reconditioned steel drums 220 lit., Net Weight: 200 ± 3 Kg
- New steel drums 220 lit., Net Weight: 200 ± 3 Kg

Production Standard

ASTM D2397-13 AASHTO M208-16 IS 8887: 2004





