



Bitumen CSS-1

(Cationic Bitumen Emulsion)

PRODUCT DATA SHEET

Bitumen emulsion CSS-1 is a cationic slow-setting (CSS) emulsion, mainly used for road construction and maintenance, especially in applications requiring a longer setting time for better penetration and mixing with fine aggregates.

CHARACTERISTICS	UNIT	LIMITS	TEST METHODS
Viscosity, Saybolt Furol at 25°C	SFS	20-100	ASTM D88
Storage Stability Test, 24-h	%	Max. 1.0	ASTM D244
Demulsibility (35 ml of 0.02 N CaCl ₂)	%	-	ASTM D244
Particle Charge Test	-	Positive	ASTM D224
Sieve Test	%	Max. 0.10	ASTM D244
Cement mixing test	%	Max. 2.0	ASTM D244

Distillation:

Residue by Distillation	%	Min. 57	ASTM D244
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TEST ON RESIDUE FROM DISTILLATION:

Ductility at 25°C	CM	Min. 40	ASTM D-113
Penetration, 25°C, 100g, 5s	CM	100-250	ASTM D5
Solubility in Trichloroethylene	% Wt	Min. 97.5	ASTM D-2042

Quality:

The quality of the bitumen is assured for every delivery with arrangement of international inspector to check quality and controlling the production by Quality Control and also by batch test report before shipping.

Application Recommendations:

Tack Coat: 0.2 to 0.6 liters per square meter

Fog Seal: 0.2 to 0.6 liters per square meter

Prime Coat: 0.7 to 1.2 liters per square meter

Slurry Seal: 0.4 to 1.0 liters per square meter

Note: These rates serve as general guidelines and may need to be tailored to specific project requirements.

Health & Safety:

Bitumen is unlikely to present any significant health or safety hazard when properly used in the recommended application, provided good standards of industrial and personal hygiene are maintained.

Packaging:

New steel drums, reconditioned steel drums, Bulk.

Steel Drums: 180Kg, 200Kg

Bulk: Tank Container

IBC Tank: 1000Ltrs

Code Approvals/Compliance:

ASTM D2397, AASHTO M208

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