



RTI Emulsion SS 1h Cationic Bitumen Emulsion Confirming to ASTM D 2397



Bitumen Emulsion is a liquid form of Bitumen in which a substantial amount of bitumen is suspended in a finely divided condition in an aqueous medium; bitumen is the dispersed phase and water is the continuous phase. RTI Emulsion CSS 1h bitumen emulsion is designed to exceed the functional requirements of respective applications.

ADVANTAGES :

- Excellent penetration into miniature pores of sub bases
- Extended breaking
- Easy spray
- Penetrate the cracks & crevices and impart strength to the layer
- Bonds well to cool, damp substrates/surfaces
- Low temperature cure
- High adhesive
- Prevent permeability of atmospheric air to the bottom Layer
- Bind loose aggregates together strongly

Application:

Prime Coat: Application of RTI CSS 1h to an absorptive surface, designed to penetrate, bond and stabilize this existing surface and to promote adhesion between it and the construction course that follows. Recommended rate of application is 6 to 9 kg per 10 m².

FOG SEAL / CRACK SEAL: Light application of RTI CSS 1h to an existing pavement as a seal to inhibit raveling, or to seal the surface, or both. Also used to fill and seal small cracks in existing pavements. Fog seal helps to rejuvenate and old oxidized road surface, thus extending its life. Recommended rate of application is 5 to 10 kg per 10 m².

SLURRY SEAL: It is a surface treatment for structurally sound roads where the wearing course has deteriorated. Slurry seal are mixtures of a fine aggregates, Portland cement filler, bitumen emulsions and additional water. When freshly mixed they have a thick consistency & can be sprayed to a thickness of 1.5 to 5 mm. They may be used to seal crack, arrest fretting and fill voids and minor depression. Recommended rate of application is 10 to 12 kg per 10 m².

PREMIX SEAL COAT: Premix is a mixture of fine aggregates, Portland cement filler, bitumen emulsions and additional water. They may be used to seal wide cracks, fill voids and minor depressions. Recommended rate of application is 10 to 12 kg per 10 m².

COLD MIXES: Mixture of RTI CSS 1h and mineral aggregate applied to ambient temperature for use in patching holes, depressions and distress areas in existing pavements using appropriate hand or mechanical method in placing and compacting the mix. These mixes can be used for immediate use or for use out of a stockpile at a later time without further processing.



RAJESHREE TAR INDUSTRIES

MANUFACTURER OF BITUMEN EMULSION AND MODIFIED BITUMEN

IS 73:2013
APPROVED BY:

CML-7300134199

IS 8887
APPROVED BY:

CML-7300131030

SPECIFICATIONS:

Some important specifications & properties of RTI CSS 1h emulsion are:

Sieve test, % Max	0.1
Viscosity by Saybolt Furol at 25 °C, sec	20 -100
Storage stability after 24 Hrs, % Max	1
Particle Charge	+Ve
Cement Mixing test, % Max	2
Miscibility with water	No Coagulation

TESTS ON RESIDUE:

• Penetration 25 °C	40 - 90
• Ductility 25 °C, cm, Min	40
• Solubility in TCE, % mass , min	97.5

Distillation

• % residue, min	57
• water content, % by mass , Maz	-

This test requirement on representative samples is waived if successful application of the material has been achieved in the field.

Availability:

RTI Emulsion SS 1h is available in
Bulk
HDPE Drums 200 kg

