



### HINCOL SS-1h Cationic Bitumen Emulsion Conforming to ASTM D 2397

Bituminous 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. HINCOL 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 layers
- Bonds well to cool, damp substrates/surfaces
- Low temperature cure
- Highly adhesive
- Prevent permeability of atmospheric air to the bottom layer
- Bind loose aggregates together strongly



#### Applications:

**Prime Coat:** Application of Hincol 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 m<sup>2</sup>

**Fog Seal / Crack Seal:** Light application of Hincol 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 an old oxidized road surface, thus extending its life. Recommended rate of application is 5 to 10 Kg per 10m<sup>2</sup>

**Slurry Seal:** It is a surface treatment for structurally sound roads where the wearing course has deteriorated. Slurry seals are mixtures of fine aggregate, Portland cement filler, bitumen emulsions and additional water. When freshly mixed, they have a thick consistency & can be sprayed to a thickness of 1.5-5 mm. They may be used to seal cracks, arrest fretting and fill voids and minor depressions. Recommended rate of application is 10 to 12 Kg per 10 m<sup>2</sup>



**Premix Seal Coat:** Premix is a mixture of fine aggregate, 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 10m<sup>2</sup>  
 Cold Mixes: Mixture of Hincol CSS-1h and mineral aggregate applied at ambient temperature for use in patching holes, depressions and distress areas in existing pavements using appropriate hand or mechanical methods 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.

### Specifications:

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

*Sieve test, % Max	0.1
Viscosity by Sabolt Furol at 25 C, sec	20 - 100
Storage stability after 24 Hr, % Max	1
Particle charge	Positive
Cement Mixing Test, % max	2
Miscibility with water	No coag
Tests on residue:	
1.Penetration 25C	40 - 90
2.Ductility 25C, cm, Min	40
3.Solubility in Trichloro ethylene % 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

**Packing:** Three types of packing are available to suit all types of sites:

- Bulk in Tank trucks
- Reconditioned MS drums of 200 Kg
- New MS drums of 200 Kg
- New HDPE drums of 200 Kg

**Transportation to the site:** Transportation can be arranged for delivery to your site. HINCOL emulsions are also available on ex-factory basis.

**Availability:** Easy and immediate availability from conveniently located plants across the country.