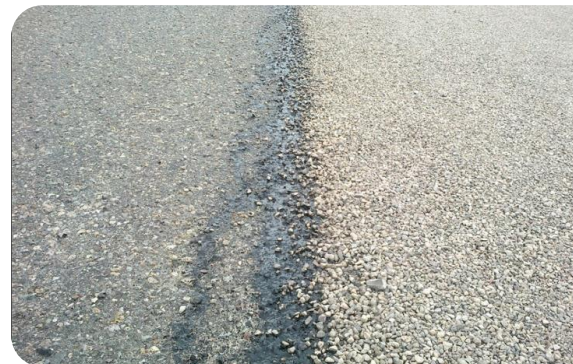


Data

Sheet

BS group Bitumen Emulsion CRS2

Cationic Bitumen Emulsion Rapid Setting



Introduction

BS group Bitumen Emulsion CRS2 is specially designed water based Bitumen Emulsion with high viscosity and fast setting time that makes it an ideal spraying product for road maintenance. The main application of CRS emulsion is surface treatment (Chip seal, sand seal and fog seal by cement curing). BS group asphalt emulsion CRS-2 is a cationic rapid setting bitumen emulsion that contains 65% bitumen, is almost black in color.

Typical properties of CRS-2

BS group Bitumen Emulsion CRS2 is manufactured strictly as per ASTM D2397-13 AASHTO M208-16 or IS 8887: 2004.

Property	Min	Max	Test Method
Viscosity, Saybolt Furol at 50°C, SFS	100	400	ASTM D7496
Storage stability test, 24-h, %	-	1	ASTM D6930
Demulsibility, 35mL, 0.8% dioctyl sodium sulfosuccinate, %	40	-	ASTM D6936
Coating ability and water resistance:			
Particle charge test	positive	positive	ASTM D7402
Sieve test, %	-	0.1	ASTM D6933
Distillation:			
Oil distillate, by volume of emulsion, %	-	3	ASTM D6997
Residue, %	65	-	ASTM D6997
Tests on residue from distillation test:			
Penetration, 25°C (77°F), 100g, 5s	100	250	ASTM D5
Ductility, 25°C (77°F), 5cm/min, cm	40	-	ASTM D113
Solubility in trichloroethylene, %	97.5	-	ASTM D2042



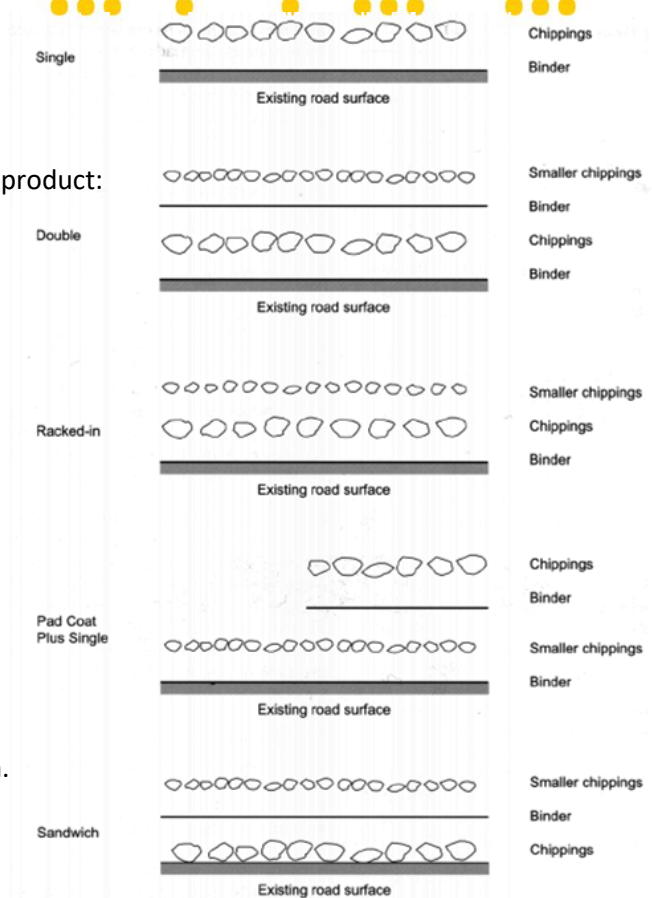
Advantages

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

- No heating required thus eco-friendly
- Cost efficient
- Easy and even spray
- Low temperature curing, fast setting time
- High adhesive properties
- Improves pavements service life
- Helps in surface rejuvenation

Applications

BS group Bitumen Emulsion CRS2 is ideally suited for surface Dressing, Grouting and Penetration Macadam.



You will see below more information about applications of this product:

Surface Dressing	It consists of application in one or two coats, each consisting of a layer of bituminous binder sprayed on a previously prepared base, followed by a cover of stone chips rolled in to form a wearing course. RS-2 type cationic bitumen emulsion is ideal for surface dressing on the shoulders and for protection of freshly laid base course. Typical rate of application for two coat surface dressing as per (MORTH&H) clause 510.2 is 28-32 kg/10sq.m.
Grouting	For economical construction of low volume roads, a combined base and wearing courses can be made by an application of HPCPL RS-2 cationic bitumen emulsion on the laid and compacted aggregates. This application can be carried out even when the stone layer is damp.
Penetration Macadam	It consists of construction of one or more layer of compacted crushed coarse aggregates with alternate application of bituminous binder and key aggregate. to be used as a base course on road, subject to the requirements of the overall pavement design.
Sand Seal	A bituminous sand application for existing pavement surface to seal the surface and to function as a light-wearing course.

Recommended rate of application

Typical rate of application of BS group Bitumen Emulsion CRS2 for two coat surface dressing is 28-32 kg/10 m².

To ensure best results

- Use without diluting Bitumen Emulsion with any solvent or water
- Use at ambient temperature
- Roll the Bitumen Emulsion drums 5 times before using

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 Bitumen Emulsion CRS2 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