



**BUOYANCY®**  
IMPEX PVT. LTD.

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## Bitumen Emulsion - CRS-2/RS-3K

Emulsion Bitumen CRS-2 exported by BUOYANCY® is fully compliant to AASHTO M208-16, ASTM D2397-13, ASTM D977-12 and EN 13808-2005 standards. A bitumen emulsion is mainly a stable mixture of asphalt cement; water and an emulsifying agent were the bitumen droplets are suspended in water with the aid of an emulsifier. This aqueous solution can be pumped into tanks for storage, mixed with aggregates to be applied to pavement, and can be used in several different ways. The main characteristic of all Bitumen emulsion is to eventually "break," independently if it's upon contact with aggregates (sand, filler, stones, etc.) when mixing or after being sprayed onto a surface. The terminology "breaking" is used to describe the process in which water separates from bitumen after the asphalt emulsion is applied or mixed.

**Bitumen emulsions CRS-2/RS-3K** has a positive charge and hence a direct and very rapid reaction between the emulsion and an aggregate or pavement is possible. Cationic emulsions may be used at ambient temperatures with aggregates, which need not be completely dry. Emulsions are less hazardous to use in comparing with cutback, and can be applied in a wider range of conditions.

Properties	Min	Max	Test Method
<b>Test on emulsions</b>			
Viscosity, Saybolt Furol at 50 °C, SFS	100	400	ASTM D7496
Storage stability test,24-h%	-	1	ASTM D6930
Demulsibility, 35 mL, 0.8 % dioctyl sodium sulfosuccinate, %	40	-	ASTMD 6936
<b>Coating ability and water resistance</b>			
Particle charge test	Positive		ASTM D7402
Sieve Test	-	0.10	ASTMD 6933
<b>Distillation</b>			
Residue %	65	-	ASTM D6977
Oil distillate, by volume of emulsion, %	-	3	ASTM D6977
<b>Tests On residue from distillation Test</b>			
Penetration, 25°C (77°F), 100 g, 5 s	100	250	ASTM D 5
Ductility, 25°C (77°F), 5 cm/min, cm	40	-	ASTMD 113
Solubility in trichloroethylene, %	97.5	-	ASTMD 2042

### Recommended Application Rate

Mist Spraying - 0.4 L/m<sup>2</sup> - 0.5 L/m<sup>2</sup>, Tack-coating - 0.2 L/m<sup>2</sup> - 0.6 L/m<sup>2</sup>, Concrete Curing - 0.5 L/m<sup>2</sup> - 0.9 L/m<sup>2</sup>  
Full Grouting - 5.0 L/m<sup>2</sup> - 11.0 L/m<sup>2</sup>, Semi-Grouting - 0.4 L/m<sup>2</sup> - 0.5 L/m<sup>2</sup>, Patching - 8.0 L/m<sup>2</sup> -  
10.0 L/m<sup>2</sup> Sealing of formation and sub-bases - 0.9 L/m<sup>2</sup> - 1.8 L/m<sup>2</sup>, Surface dressing –  
1.4 L/m<sup>2</sup> - 1.6 L/m<sup>2</sup>, Recommended Spraying Temperature: Ambient (5°C - 35°C)

Accredited: ISO9001:2015 | ISO 14001:2015 | ISO45001:2018

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## Advantages

- 1) Environment friendly
- 2) No heating required
- 3) Cost efficient
- 4) Easy and uniform spray
- 5) Low temperature curing, fast setting time
- 6) High adhesive properties
- 7) Prevents slippage of structural layers

## Applications

Bitumen Emulsion CRS-2/RS-3K is ideally suited for surface Dressing, Grouting and Penetration Macadam.

<b>Surface Dressing</b>	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.
<b>Grouting</b>	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.
<b>Penetration Macadam</b>	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.
<b>Sand Seal</b>	A bituminous sand application for existing pavement surface to seal the surface and to function as a light-wearing course.

## Bitumen Emulsion CRS-2 is available in

1. Bulk as IBC Tank, Flexi Tank
2. Reconditioned steel drums, Net Weight: 200 ± 3 Kg
3. New steel drums, Net Weight: 200 ± 3 Kg

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