



**BUOYANCY**<sup>®</sup>  
IMPEX PVT. LTD.

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## Bitumen Emulsion - CRS-1/RS-2K

Emulsion Bitumen CRS-1 exported by BUOYANCY<sup>®</sup> 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 where 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. Bitumen Emulsions break 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.

Properties	Min	Max	Test Method
<b>Test on emulsions</b>			
Viscosity, Saybolt Furol at 50°C SFS	20	100	ASTM D7496
Storage stability test, 24-h, %	...	1	ASTM D6930
Demulsibility, 35 mL, 0.8% dioctyl sodium sulfosuccinate, %	40	...	ASTM D6936
<b>Coating ability and water resistance</b>			
Particle charge test	positive		ASTM D7402
Sieve test, %		0.10	ASTM D6933
<b>Distillation</b>			
Oil distillate, by volume of emulsion, %		3	ASTM D6997
Residue by evaporation, %	60		ASTM D6997
<b>Tests on residue from distillation test</b>			
Penetration, 25°C, 100g, 5s	100	250	ASTM D5
Ductility, 25°C, 5 cm/min, cm	40		ASTM D113
Solubility in trichloroethylene, %	97.5		ASTM D2042

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



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### 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)

### 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

- 1) Single surface treatment
- 2) Multiple surface treatment and Sand seal
- 3) To ensure a proper bond between existing surface and the new bituminous course being placed over it.
- 4) To ensure longevity of the road, it is important that the new bituminous surface bonds firmly with underneath surface
- 5) To coat and bond loose mineral particle on the surface of the surface layer
- 6) To seal surface pores and make the surface water-resistant
- 7) To impart structural stability and prevent lateral movement of layer
- 8) To assist adhesion between the base and super impose surface course
- 9) Bitumen Emulsion CRS-1 / RS-2K is also used for Fog Sealing, Mist Spraying and dressing.

Tack coat application is a light spray of Bitumen Emulsion, which may be hand or machine sprayed. It is used to ensure a good bond between an old and a new bituminous surfacing layer. It is normally applied very thin and evenly over the entire surface.

### Packaging

- 1) Bulk by 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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