



 "C" Tower, 10th Floor, Hampton Park,
 Vesu, Surat 395007 Gujarat, India
 +91 99250 53193
 +91 99250 53069
 info@buoyancyimpex.com
 buoyancyinc@gmail.com

Bitumen Emulsion – K3

Bitumen Emulsion K3 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 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. 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 emulsion K3 is a mixture of water & bitumen, Addition of emulsifier with water facilitates breaking of bitumen into minute particles, K3 is a cationic (slow setting) road emulsion that contains 56% bitumen. It is in chocolate brown in color and is a free flowing liquid at ambient temperature and it is cold applied, liquid bitumen emulsions. In fact, it's suitable for premix – carpet and pothole repair. Bitumen Emulsions are used in the construction and repair of pavements, driveways, roads, and highways. It 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	Results
Particle Charge	Positive
Residue on 710 um KS sieve (%) (m/m) Maximum	0.05
Residue on 150 um KS sieve (g per100 ML), Maximum	0.15
Binder Content (%) (m/m) minimum	56
Viscosity Degrees Engler (°E) at 20°C	10 max
Viscosity redwood No II (s at 85 °C)	-
Storage stability (long period test) % water content Difference , Max	2

Advantages

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

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



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Applications

- 1) Bitumen Emulsion K3 is for road pavement bases and surfaces projects as:
- 2) Plant mix (cold) with both dense-graded aggregate and sand
- 3) Mixed-in-place with dense-graded aggregate
- 4) Slurry seal

Also, k3 emulsified bitumen use for some bituminous applications like:

- 1) Fog Seal
- 2) Prime coat-penetrable surface
- 3) Tack coat
- 4) Dust Binder
- 5) Mulch Treatment
- 6) Crack filler

Recommended rate of application

Bitumen Emulsion K3 is designed for use in slurry seals and for cold storable mixtures for patching. They are designed for soil stabilization and also suitable for use with cold recycling. These emulsions are tailor made as per quality of aggregates and local site conditions.

Application	Quantity in Kg/10 m2 Area
Fog Seal	5 to 10
Slurry Seal	10 to 12
Premix Seal Coat	12 to 15

Packaging

- 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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