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Bitumen Emulsion – K1-70

Emulsion Bitumen K1-70 exported by BUOYANCY™ is fully compliant to KS 02-769: 1990 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 K1-70 is a cationic emulsion that contains 57% bitumen. It is chocolate brown in color and is a free flowing liquid at ambient temperature and it is cold applied. 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	-
Residue on 150 um KS sieve (g per100 ML), Maximum	-
Binder Content (%) (m/m) minimum	67
Viscosity Degrees Engler (°E) at 20°C	-
Viscosity redwood No II (s at 85 °C)	25-35
Storage stability (24 Hours)	1 max
Sieve Test %	0.1 Max

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

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



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Applications

Bitumen Emulsion K1-70 is primarily used as a tack coat, to provide a bond between the existing surface and overlays e.g. hot rolled asphalt, macadam and slurry seals, or between courses in road construction.

Also, one of the main applications of emulsion K1-70 is in road surface treatments and seals as:

- 1) Single surface treatment
- 2) Multiple surface treatment
- 3) Sand seal

Tack Coat K1-70 cationic bitumen emulsion can be used at ambient temperature at the spray rate of 0.25 to 0.70 liter per square meter (0.05 to 0.15 gallon per square yard).

Typical rate of application K1-70 for two coat surface dressing as per (MORTH&H) clause 510.2 is 28-32 kg/10sq.m.

Bitumen Emulsion K2 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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