



BUOYANCY[®]
IMPEX PVT. LTD.

📍 "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 – K1-60

Emulsion Bitumen K1-60 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 K1-60 is a K1-60 is rapid setting cationic asphalt, which has positive charge leading reaction between the emulsion and pavement. It contains 57% bitumen. 1 denoted as rapid braking. The primer bitumen which is used for emulsification is obtained from crude oil. It is chocolate brown in color and is a free flowing liquid at ambient temperature. The main applications Bitumen emulsion K1- 60 are pavement construction, surface dressing and tack coat. 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	57
Viscosity Degrees Engler (°E) at 20°C	6-9
Viscosity redwood No II (s at 85 °C)	-
Storage stability (24 Hours)	2 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 K1-60 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.

Bitumen Emulsion K1-60, because of its higher bitumen content, is generally used for surface dressing, patching, retread, and other similar applications.

- 1) Treatments and seals:
- 2) Single surface treatment
- 3) Multiple surface treatment
- 4) Sand seal

Recommended Rate of Application

Application	Quantity in Kg/10 m ² Area
Bitumen Surface	2 – 2.5
Aged Bitumen Surface	2.5 – 3
Primed Surface	2.5 – 3
Non Bitumen Surface	
Granular Base (Not Primed)	3.5 – 4.0
Cement Concrete Pavement	3.0 – 3.5

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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