



BS group Bitumen Emulsion K1-70

Cationic Bitumen Emulsion Rapid setting



Introduction

BS group asphalt emulsion K1-70 is a cationic rapid setting bitumen emulsion that contains 67% bitumen. It is a medium viscosity emulsion used mainly for tack coating in normal overlay and patching work. Bitumen emulsion K1-700 is in chocolate brown in color and is a free flowing liquid at ambient temperature and is commonly used for Tack-Coating as well.

Typical properties of Bitumen emulsion K1-70

BS group K1-70 cationic bitumen emulsion is made according to KS 02-769: 1990 standard and Malaysian Standard, MS 1.61 (1994).

Property	Result
Particle charge	Positive
Residue on 710 um KS sieve %(m/m), maximum	-
Residue on 150 um KS sieve (g per 100 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

At the following you can find some advantages of this product:

- Environment friendly
- No heating required
- Cost efficient
- Easy and uniform spray
- Low temperature curing, fast setting time
- High adhesive properties
- Prevents slippage of structural layers

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 application of emulsion K1-70 is in road surface treatments and seals as:

- Single surface treatment
- Multiple surface treatment
- 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.

To Ensure Best Result

- Use without diluting Bitumen Emulsion with water
- Use at ambient temperature
- Roll the Bitumen Emulsion drums to and fro motion at a distance of minimum 5 meter

Handling and safety

- Contains petroleum distillate; flammable: keep away from open fire, sparks or other ignition sources; wear protective clothing, gloves and goggles.
- Fire flammable when wet, flash point 40°C.
- Skin –avoid repeated or prolonged contact, if occurs remove with hand cleaner that removes oil or grease, then clean with soap and water.
- Eyes contact could cause irritation, if contact occurs flush immediately with clean water.
- Inhalation can cause dizziness, move immediately in fresh air if dizzy and if breathing difficulty persists administer oxygen.

Cleaning

Tools: Clean with kerosene.

Hands: Use a hand cleanser or kerosene followed by soap and water.

Availability

BS group Bitumen Emulsion K1-70 is available in:

- Bulk
- IBC Tank, Flexi Tank
- Reconditioned steel drums 220 lit., Net Weight: 200 ± 3 Kg
- New steel drums 220 lit., Net Weight: 200 ± 3 Kg