



MAK PME-105

Polymer Modified Bitumen Emulsion

Description

Mak PME - 105 Polymer modified bitumen emulsion is part of a special class of bituminous emulsions that shows improved rheological properties of the residue after breaking. Its design and manufacturing differs in several ways from those of unmodified emulsions.. Polymer modified bitumen emulsions have been successfully used for several decades in the road industry.

They represent a class of high performance binders whose preferred application is in the form of chip seals and as micro-surfacing for heavily trafficked pavements. Polymer modified bitumen emulsions are recommended for all emulsion applications. The advantages are as follows:

- ◆ Improve performance
- ◆ Stiffer at high temperatures (prevents bleeding, rutting)
- ◆ Less brittle at low temperatures (resists shelling, cracking)
- ◆ More adhesive (more resistant to early chip loss, ravelling, delamination)
- ◆ Less susceptible to moisture damage
- ◆ Less susceptible to oxidative aging (prevents ravelling, cracking)
- ◆ More elastic - fatigue resistant (reduces chip loss, cracking)

Micro-Surfacing, being widely used in India, is a polymer modified, asphalt emulsion based, dense graded, cold mixed, quick setting, asphalt resurfacing material. It is designed to be applied in a semi-liquid condition with a specialized mixing and paving machine. By design it chemically changes from a semi-liquid material to a dense cold mix material that is able to carry normal traffic within one hour after application.

1. Water is recommended to make the material brushable.
2. Minimum 6 hours gap should be given between coats for drying.
3. Reinforcement of Non-woven fabric of 40-50gsm or glass fiber mesh may be provided for improved stability and tensile strength.

Storage

Store under cover, out of direct sunlight and protect from extremes of temperature. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging.

Limitation

Proper storage, handling, and application guidelines must be followed carefully for best results. As with any emulsion, do not allow the material to freeze or boil because of aggressive heating. Freezing or boiling of Mak PME - 105 will break the emulsion.

Technical Data

Properties	Value
Specific gravity	1.01 +/- 0.02
Appearance	Dark brown to blackish liquid
Service temp. range	-10°C - +60°C
Storage stability	12 months if unopened
Solubility in water	Dispersible
Boiling point	212° F

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