

FiberMat Emulsion

Rapid Set Polymer Modified Cationic Emulsion

DESCRIPTION

FiberMat Emulsion is a cationic polymer modified rapid set asphalt emulsion of low to high viscosity specifically designed for use in the FiberMat surface and pavement interlayer pavement preservation process. It is specially designed to meet DOT FiberMat Emulsion specifications and to resist tracking, flushing, and stone loss in relatively higher temperature climates and extreme ADT conditions.

FiberMat Emulsion employs both a chemical and thermal water breaking mechanism that allows for quick sweeping and return to traffic or placement of surface course*.

FiberMat Emulsion adheres well to most aggregates because the majority of them are negatively charged**.

FiberMat Emulsion** provides superior stone retention in shaded or otherwise challenging applications*.

*Weather, aggregate, and application conditions can play a factor in sweeping, return to traffic time, and chip retention.

**Large quantities of fines or P-200's (> 2 – 3%) on the aggregate can reduce adhesion.

FEATURES/BENEFITS

- DOT Specifications Acceptance
- Mobility resistance in challenging conditions
- Rapid breaking
- Polymer modification
- Works well with most aggregates
- Superior chip retention
- Provides water resistant seal

APPLICATION

Recommended application conditions of FiberMat Emulsion are 55o F and rising with roadbed temperatures of 55o F to 130o F. Do not apply in foggy or rainy weather. Chip retention can be compromised if placed after August in northern states' climates. FiberMat Emulsion should be applied at the recommended rates; however, variances must be made for the size and gradation of the aggregate (Typical aggregates for single layer chip seals range from ¼" to 3/8") and the absorption characteristics of the pavement being treated. Surfaces should be clean, swept, and dry before application of the FiberMat Emulsion binder. The chips must be placed before a significant portion of the emulsion has started to break.

SPECIFICATIONS – TECHNICAL DATA

FiberMat Emulsion

<u>Emulsion Tests</u>	<u>Specification</u>	<u>Typical Results</u>
Viscosity, SFS @ 50°C, sec	75 – 400	200
Sieve, %	< 0.10	<0.05
Residue by distillation, %	> 68.0	68.0 +/-
Pen, dmm	70 – 100	90
Demulsibility, %	> 50.0	60 - 90
Elastic Recovery @10°C, %	> 75.0	75 - 80
Toughness and Tenacity, 25°C, Nm,	>9.0/7.0	>11.0/8.50

Product Handling Guidelines

- Emulsion must **not** be blended with other emulsions.
- Direct contact heat should only be done when absolutely necessary. This should be done sporadically and with recirculation or agitation if possible. Note: Emulsion which directly contacts any heat source above 210°F will experience break and separation.
- Contact your technical representative for instructions regarding storage and handling of rapid set polymer modified emulsions.
- Emulsion separation will occur if frozen or boiled.

APPLICATION RECOMMENDATIONS

FiberMat Emulsion should be applied between 0.40 and 0.6 gallons/SY for surface treatments and between 0.30 and 0.50 gallons/SY for interlayer treatments depending on the texture, porosity etc. of the surface and at emulsion temperatures 150°F (77°C) or less to protect the FiberMat components.



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