

# CSS-1M



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*Soft Base Micro Emulsion for Flexible Micro Paving*

## DESCRIPTION

**CSS-1M** is a soft base micro surfacing asphalt emulsion designed to provide you with an alternative to standard hard base micro surfacing asphalt emulsion.

**CSS-1M** is a polymerized micro surfacing asphalt emulsion formulated to resist cracking better than standard hard base micro surfacing asphalt emulsions.

**CSS-1M** can be formulated; aggregate specific, in our AASHTO Accredited micro surfacing laboratory to provide the quality and productivity required by the project.\* Further adjustments to the formulation can be made during the project to enhance the application of micro surfacing pavement accounting for changes in the aggregate and environmental conditions.\*\*

\*Weather conditions can affect mix and set times and return to traffic time.

\*\*There are many factors that affect the transition from one formulation to an adjusted formulation; therefore, good communication from the project to the laboratory/production team are crucial toward achieving the fastest response.

## FEATURES/BENEFITS

- Mix design support and testing from our AASHTO Accredited laboratory
- Soft base asphalt used in the production of the emulsion for colder climates or road conditions that require more flexibility
- Aggregate specific formulation
- Polymer modification for fast traffic times and pavement surface durability.

## APPLICATION

Optimum application of **CSS-1M** occurs when the air pavement temperature is above 45°F (7°C) and rising. Do not apply in rain, inclement weather, or when the air temperature is forecast to be below 32°F (0°C) within 24 hours of application. Vehicular traffic should be kept off the treated area until surface is cured. Prior to mixing, **CSS-1M** should be homogenized thoroughly. The surface to be paved should be free of all loose material and standing water. It must be applied by using a suitable calibrated micro paver & experienced personnel.

## SPECIFICATIONS – TECHNICAL DATA

### CSS-1M

<u>Emulsion Tests</u>	<u>Specification</u>	<u>Typical Results</u>
Viscosity, SFS @ 25°C	20-100	35
Sieve, %, max	0.10	< 0.05
Residue by distillation, %, min	62.0	67
Pen, dmm	80-130	110
Storage Stability, %	< 1.0	≤ 0.5
Ductility, 25°C, cm, min.	40	> 60
Softening Point, R&B, °C	57.2	60+

### 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.
- Emulsion separation will occur if frozen or boiled.
- Contact your technical representative for instructions regarding storage and handling of polymer modified emulsions.
- Micro surfacing emulsion should be thoroughly homogenized prior to use

## APPLICATION RECOMMENDATIONS

**CSS-1M** should be mixed according to the Job Mix Formulation recommended by the laboratory to meet micro surfacing mix specifications.



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