

SS-1H

Anionic Slow Setting Asphalt Emulsion

DESCRIPTION

SS-1H is an anionic slow setting asphalt emulsion intended for use as a tack coat before HMA placement, in fine-graded mixes, dust control, fog seal, and other specialty applications.

SS-1H and other slow setting asphalt emulsions are the most stable asphalt emulsions and can generally be applied at full strength or diluted with water for viscosity reduction or to meet other construction requirements.

SS-1H is formulated with a hard based asphalt and when used as a paving tack coat provides a strong bonding agent between pavement layers. Application rates can be varied but generally the higher the application rate the stronger the bond between pavement layers becomes. Cure time will vary with the rate of application*.

*Weather, temperature, and surface conditions will affect cure/break.

FEATURES/BENEFITS

- Stable emulsion with long shelf life
- Simple handling and storage properties
- Applicable as tack coat for HMA placement in a variety of climates.

APPLICATION

SS-1H must be spray applied by using a suitable calibrated distributor & experienced personnel. **SS-1H** can be applied under the same conditions of the subsequent pavement placement; however, break time and bond strength can be affected by extreme weather conditions. **SS-1H** should never be used when pavement or ambient temperatures are near or below freezing. Performance and bond strength can be severely compromised under these conditions. If dilution of **SS-1H** is required it is important that the water be added to the emulsion and at a water temperature equal to or greater than the temperature of the concentrate emulsion but not greater than 200° F.



SPECIFICATIONS – TECHNICAL DATA

SS-1H

<u>Emulsion Tests</u>	<u>Specification</u>	<u>Typical Results</u>
Viscosity, SFS @ 25°C, sec	20 - 100	30
Sieve, %	< 0.10	<0.03
Residue by distillation, %	≥ 60.0	62.0
Pen, dmm	40 - 90	60
Ductility 25° C, cm, min	40	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.

STORAGE RECOMMENDATIONS

SS-1H should be stored at 50° - 140°F (10° - 60°C). Agitation is only recommended to keep skin formation from occurring and should be done slowly and only for a few minutes each day. Do not agitate and work 'below' the skin if that is not possible. Pumping should only be done when necessary to transfer or load the emulsion.



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