

SS-1hP

Anionic Slow Setting Polymer Modified Asphalt Emulsion



DESCRIPTION

SS-1hP is an anionic slow setting polymer modified asphalt emulsion intended for use as a tack coat before HMA placement, and polymer modified fog seal.

SS-1hP; while not as stable as SS-1H is more stable than most other polymer modified asphalt emulsions. It can be used full strength or diluted* with water to meet the requirements of the application.

SS-1hP is formulated with a hard based asphalt and offers significant differences as a tack coat compared to SS-1H. **SS-1hP**, dependent on the application rate and dilution, significantly reduces tracking, may provide quicker break, can significantly reduce or eliminate pavement migration during compaction, and may reduce pick up by construction vehicles while improving adhesion between the original road surface and new pavement.

*The appropriate dilution; if any, varies with the type of surface to which the SS-1hP is applied.

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

FEATURES/BENEFITS

- Stable emulsion with long shelf life
- Reduced tracking
- Reduced break time
- Reduced pick up by construction vehicles
- Improved bonding properties between pavement layers

APPLICATION

SS-1hP must be spray applied by using a suitable calibrated distributor & experienced personnel. **SS-1hP** 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-1hP** 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-1hP** 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-1hP

<u>Emulsion Tests</u>	<u>Specification</u>	<u>Typical Results</u>
Viscosity, SFS @ 25°C, sec	20 - 100	30
Sieve, %	< 0.10	<0.05
Residue by distillation, %	≥ 60.0	62.0
Pen, dmm	40 - 90	55
Ductility 25° C, cm, min	40	60
Softening Point, R & B, °C	NA	59

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-1hP should be stored at 65° - 155°F (18° - 68°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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