SS-1VH
Technical Data Sheet

SS-1VH Polymer-Modified Anionic Quick-Setting Hard Penetration Less Tracking Bond Coat (Tack)

SS-1VH asphalt emulsion is anionic quick-setting emulsified asphalt consisting of hard penetration grade asphalt cement, conditioned water, and a polymer-modified emulsifier that is blended through a colloid mill. The water temporarily reduces the viscosity of the asphalt cement for ease of handling and application. After application, the water evaporates, leaving asphalt cement to perform its function. Our SS-1VH asphalt emulsion conforms to the specifications of MoDOT and IDOT.

Applications
Current common uses are in bond (tack) coats for adhesion of hot mix asphalt pavement layers, to concrete or asphalt pavement surfaces.

Typical Material Use

- Less-Tracking Bond Coat (Tack)

Temperatures

- Storage: 75-140° F
- Spray Application: 150-180° F
  - Agitate or circulate gently while heating.
  - Apply only when ambient and pavement temperatures are 50° F and rising.
  - Do not apply with impending rain or on a wet surface.

Application

- **Tack:** 0.08 to 0.15 gallons per square yard applied by calibrated distributor with correct size spray nozzles uniformly set at 30° for a triple-fan spray. Hand spraying shall be performed with caution to avoid over spraying.
  - Application rate varies with surface texture, oxidation, and material.
- Avoid ponding of material. Allow up to 20 minutes to cure.
- Do not apply when rain is forecasted within 8 hours after application.
- Clean surface of all loose materials, dirt, and dust before application.
- SS-1VH application on pavement with surface temperature above 100° F may increase tracking of material.

Storage and Handling

Before being filled, tankers and distributors should be examined for possible contaminants. SS-1VH is not compatible with cationic emulsions. All tankers and distributors shall be thoroughly cleaned and drained if cationic emulsion was previously present. Do not dilute or over agitate by mixing or pumping excessively. The product should not be heated or cooled outside the storage temperature limits. SS-1VH storage over 30 days may result in product breaking and should be visually inspected for separation before use.

Packaging

SS-1VH is available in bulk.

Health & Safety

Refer the SS-1VH Safety Data Sheets (SDS) before use. Transport, use and store at the lowest temperature possible. Eliminate all potential ignition sources during application. Avoid breathing vapors. Avoid contact with skin. Always wear appropriate PPE including heat protection when used hot. DO NOT allow product or washings to enter storm water or sanitary sewer systems.

Protect the environment

Waste must be disposed of in accordance with local legislation.

Typical Physical Characteristics*

Description	Unit	Test Method	Specification	
			Minimum	Maximum
Test on emulsified asphalt:				
Particle Charge (8 mA, min.)		AASHTO T 59	Anionic	
Viscosity, Saybolt Furol @ 77 °F	s	AASHTO T 59	20	100
Storage Stability Test, 24-hour	%	AASHTO T 59	--	1
Sieve Test	%	AASHTO T 59	--	0.30
Lab Track-Free Time, 77°F	minutes	MODOT TM 87	--	60
Lab Bond Strength		AASHTO	TBD	--
Distillation:				
Residue	%	AASHTO T 59	50	--
Tests on residue from distillation:				
Penetration@ 77 °F, 100 g, 5sec	dmm	AASHTO T 49	--	40
Softening Point	°F	AASHTO T 53	135	--
Solubility in Trichlorethylene	%	AASHTO T 44	97.5	--
Note. Exception to AASHTO T 59: Bring the temperature on the lower thermometer slowly to 500 ± 10°F. Maintain at this temperature for 15 minutes. Complete total distillation in 60 ± 5 min. from first application of heat. TBD = To be determined				

*These characteristics are typical of current production. While future production will conform to these specifications, variations within these minimums and maximums may occur.