

SECTION 02512

TACK COAT

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Tack coat for asphaltic concrete paving.

1.02 UNIT PRICES

- A. No separate payment will be made for tack coat under this Section. Include payment in unit price for asphaltic concrete pavement.

1.03 SUBMITTALS

- A. Submittals shall conform to requirements of all sections and provisions of these specifications.
- B. Submit product data for proposed tack coat.
- C. Submit report of recent calibration of distributor.

PART 2 PRODUCTS

2.01 CUTBACK ASPHALT

- A. Provide moisture-free homogeneous material which will not foam when heated to 347 degrees F and which meets following requirements:

- 1. Asphalt material for tack coat: RC-250 and meet following:

<u>Properties</u>	<u>Min.</u>	<u>Max.</u>
Water, percent	---	0.2
Flash Point, T.O.C., deg. F	80	---
Kinematic Viscosity at 140EF, cst	250	400

2. Distillate: Expressed as percent by volume of total distillate to 680° F:

	<u>Min.</u>	<u>Max.</u>
to 437EF	40	75
to 500EF	65	90
to 600EF	85	--
Residue from 680EF Distillation,		
Volume, percent	70	--

3. Tests on Distillation Residue:

	<u>Min.</u>	<u>Max.</u>
Penetration at 77EF, 100g, 5 sec.	100	150
Ductility at 77EF, 5 cm/min. cms	100	---
Solubility in trichloroethylene	99	---
Spot Test	All Negative	

2.02 EMULSION

A. Provide homogeneous material which shall show no separation of asphalt after mixing and shall meet the viscosity requirements at any time within 30 days after delivery.

1. Emulsion material for tack coat: SS-1 and meet following:

	<u>Min.</u>	<u>Max.</u>
Furol Viscosity as 77 F, sec.	30	100

Residue by Distillation, %	60	---
Oil Portion of Distillate, %	---	2
Sieve Test, %	---	0.1
Miscibility (Standard Test)	Passing	Passing
Cement Mixing, %	---	2.0
Storage Stability, 1 Day, %	---	1
Test on Residue:		
Penetration at 77 F, 100 g, 5 sec	120	160
Solubility in Trichloroethylene, %	97.5	---
Ductility at 77 F, cm/min, cms	100	---

2. For emulsions used for tack coats during the period of April 16 to September 15, volatile organic compound solvents (VOC) shall not exceed 12% by weight when tested in accordance with ASTM D244.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify compacted base is ready to support imposed loads.
- B. Verify lines and grades are correct.

3.02 PREPARATION

- A. Thoroughly clean base course or concrete surface of loose material by brooming prior to application of tack coat.

3.03 APPLICATION

- A. Apply tack coat uniformly by use of approved distributor at rate not to exceed 0.04 to 0.10 gallons per square yard of surface.
- B. Paint all contact surfaces of curbs and structures, and all joints with thin uniform coat of tack coat.
- C. Cutback Asphalt:

1. Do not use cutback asphalt during the period of April 16 to September 15.
2. Apply the mixture when the air temperature is 60 degrees F and above, or above 50 degrees F and rising. Measure the air temperature in the shade away from artificial heat. The Owner Representative will determine when weather conditions are suitable for application.
3. Temperature of tack coat shall be between 125 degrees F and 180 degrees F when applied.
4. Do not heat tack coat above 200 degrees F at any time.

3.04 PROTECTION

- A. No traffic or placing of subsequent courses shall be permitted over freshly applied tack coat until authorized by the Owner's Representative.

END OF SECTION