

Section 02743

TACK COAT

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Tack coat for asphalt concrete paving.

1.02 MEASUREMENT AND PAYMENT

- A. Unit Prices.

1. No separate payment will be made for tack coat under this Section. Include payment in unit price for asphaltic pavements.
2. Refer to Section 01270 - Measurement and Payment for unit price procedures..

- B. Stipulated Price (Lump Sum). If Contract is Stipulated Price Contract, payment for Work in this Section is included in total Stipulated Price.

1.03 REFERENCES

- A. ASTM D 244 - Standard Test Methods for Emulsified Asphalts.

1.04 SUBMITTALS

- A. Conform to requirements of Section 01330 - Submittal Procedures.
- B. Submit product data for proposed tack coat.
- C. Submit report of recent calibration of distributor.

PART 2 PRODUCTS

2.01 EMULSION

- A. Provide homogeneous material which shows no separation of asphalt after mixing and meets viscosity requirements within 30 days after delivery.
- 2. Emulsion material for tack coat.
 1. Emulsified asphalt: SS-1 or SS-1h meeting following criteria:

PROPERTIES	SS-1		SS-1h	
	MIN.	MAX.	MIN.	MAX.
Furol Viscosity at 77/F, sec.	20	100	20	100
Residue by Distillation, %	60	C	60	C
Oil Portion of Distillate, %	C	1/2	C	1/2
Sieve Test, %	C	0.10	C	0.10
Miscibility (Standard Test)	Passing			
Cement Mixing, %	C	2.0	C	2.0
Storage Stability, 1 Day, %	C	1	C	1
Test on Residue:				
Penetration at 77/F, 100g, 5 sec.	120	160	70	100
Solubility in Trichloroethylene, %	97.5	C	97.5	C
Ductility at 77/F, 5 cm/min., cms	100	C	80	C

2. Polymer Modified Emulsion, SS-1P, for use where thin overlays (less than or equal 2 inches) are placed on collector or arterial streets and for speed humps, especially over existing Portland cement concrete pavement.

PROPERTIES	SS-1P	
	MIN.	MAX.
Furol Viscosity at 77 F, sec.	30	100
Residue by Distillation, %	60	C
Oil Portion of Distillate, %	C	1/2
Sieve Test, %	C	0.10
Miscibility (Standard Test)	Passing	
Cement Mixing, %	C	2.0
Storage Stability, 1 Day, %	C	1
Test on Residue:		
Penetration at 77/F, 100g, 5 sec.	100	140
Solubility in Trichloroethylene, %	97	C
Ductility at 77/F, 5 cm/min., cms	50	C
Viscosity at 140 F, poises	1300	C

3. For emulsions used for tack coats during period of April 16 through September 15, volatile organic compound solvents (VOC) shall not exceed 12 percent by weight

when tested in accordance with ASTM D 244.

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 tack coat application.

3.03 APPLICATION

- A. Apply tack coat uniformly by use of approved distributor at rate not to exceed 0.05 gallons per square yard of surface depending on texture of underlying surface. Select an application rate that will provide appropriate asphalt residual.
- B. Paint contact surfaces of curbs, structures, and joints with thin uniform coat of tack coat.

3.04 PROTECTION

- A. Prevent traffic or placement of subsequent courses over freshly applied tack coat until authorized by City Engineer.

END OF SECTION