
**SECTION 02735
TACK COAT**

PART I: GENERAL

1.1 GENERAL REQUIREMENTS

- A. Tack coat for asphalt concrete paving.

1.2 MEASUREMENT AND PAYMENT

A. Unit Prices:

- 1. No separate payment shall 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):

- 1. If Contract is Stipulated Price Contract, payment for Work in this Section is included in Total Stipulated Price.

1.3 REFERENCES

A. ASTM – American Society for Testing and Materials.

- 1. ASTM D244 – Standard Test Methods for Emulsified Asphalts.

B. CFTS – City of Friendswood Technical Specifications

1.4 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.

1.5 QUALITY ASSURANCE

- A. Provide manufacturer's affidavits that material was manufactured in compliance with standards referenced in this Section.

PART II: PRODUCTS

2.1 EMULSION

- A. Provide homogeneous material which shows no separation of asphalt after mixing and meets viscosity requirements within thirty days (30 D) after delivery.

B. Emulsion material for tack coat.

- 1. Emulsified asphalt: SS-1 or SS-1H meeting criteria listed in Table 4.1 – PROPERTIES OF EMULSIFIED ASPHALT SS-1 OR SS-1H in this Section.
- 2. Polymer Modified Emulsion, SS-1P, for use where thin overlays [less than or equal two inches (2 In)] are placed on collector or arterial streets and for speed humps, especially over existing

02735-1

Portland cement concrete pavement, meeting criteria listed in Table 4.2 – PROPERTIES OF POLYMER MODIFIED EMULSION SS – 1P in this Section.

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

PART III: EXECUTION

3.1 EXAMINATION

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

3.2 PREPARATION

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

3.3 APPLICATION

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

3.4 PROTECTION

- A. Prevent traffic or placement of subsequent courses over freshly applied tack coat until authorized by the Project Manager.

PART IV: TABLES

4.1 PROPERTIES OF EMULSIFIED ASPHALT SS-1 OR SS-1H

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

4.2 PROPERTIES OF POLYMER MODIFIED EMULSION SS – 1P

PROPERTIES	SS – 1P	
	MIN.	MAX.
Furol Viscosity at 77° F, sec.	30	100
Residue by Distillation, %	60	---
Oil Portion of Distillate, %	---	1/2
Sieve Test, %	---	0.10
Miscibility (Standard Test)	Passing	
Cement Mixing, %	---	2.0
Storage Stability, 1 Day, %	---	1
Test on Residue:		
Penetration at 77° F, 100g, 5 sec.	100	140
Solubility in Trichloroethylene, %	97.0	---
Ductibility at 77° F, 5 cm/min., cms	50	---
Viscosity at 140° F, poises	1300	---

END OF SECTION

02735-3