

**SECTION 02802 -TACK COAT**

**PART 1- GENERAL**

1.1 DESCRIPTION

- A. The WORK under this Section includes providing all labor, materials, tools and equipment necessary for furnishing and applying bituminous material to an existing asphalt surface to provide bond for a new asphalt wearing surface.

**PART 2 - PRODUCTS**

2.1 MATERIALS

- A. Asphalt material used for tack coat shall be STE-1 or CCS-1 Cationic Emulsified Asphalt, conforming to the requirements of the following table:

**CCS-1/STE-1 CATIONIC EMULSIFIED ASPHALT**

<b>TESTS ON EMULSION</b>	
Viscosity @ 77°F., SSF	30 max.
Storage Stability, One (1) day, %	One (1) max.
Demulsibility 35 ml. 0.8% SDS, %	25 min.
Particle Charge	Positive *
Sieve, % retained	0.10 max.
Distillation Oil by Vol. Of Emulsion, %	Five (5) max.
Distillation Residue by Wt. Of Emulsion, %	45 min.
<b>TESTS ON RESIDUE</b>	
Penetration @ 77° F.	100-200
Ductility @ 77°F., 5cm/min., cm	40 min
Solubility in TCE, %	97.5 min.

\* If particle charge test is inconclusive, material having a maximum pH value of 6.7 will be acceptable.

Storage/Application	Spray °F	Mix °F	Storage °F
Limitations for STE-1	70-140	70-150	50-125
Limitations for CCS-1	70-140	70-160	50-125

**PART 3 - EXEXUTION**

3.1 EQUIPMENT

- A. The CONTRACTOR shall provide equipment for heating and applying the Tack Coat.

3.2 CONSTRUCTION

- A. The existing surface shall be patched, thoroughly cleaned, and free of irregularities to provide a reasonably smooth and uniform surface to receive the treatment. Unstable corrugated areas shall be removed and replaced with suitable patching materials. The

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edges of existing pavements, which are to be adjacent to new pavement, shall be cleaned to permit the adhesion of asphalt materials.

- B. Tack Coat shall not be applied to a wet surface. Tack Coat shall be applied only when the air temperature is above 40°F.
- C. CSS-1 emulsified asphalt for tack coat shall be diluted with an equal amount of potable water at a temperature of between 50°F and 102°F and mixed for a minimum of 15 minutes before using.
- D. Diluted emulsion shall be used within 48 hours after the water is added.
- E. The diluted emulsion shall be uniformly applied with a pressure distributor at a rate of 0.05 to 0.10 gallons per square yard, as directed.
- F. The Tack Coat shall be applied in such a manner as to offer the least inconvenience to traffic and to permit one-way traffic without pick-up, or tracking of the asphalt material.
- G. Existing improvements such as the rigid conduit, power supply cable, concrete encasement and centerline light shall be protected to prevent contact with bituminous material. The Tack Coat shall be allowed to dry until it is in a proper condition of tackiness to receive the next course. The Tack Coat shall be applied only as far in advance of the next course placement as is necessary to obtain this proper condition of tackiness. Until the next course is placed, the CONTRACTOR shall protect the Tack Coat from damage.
- H. STE-1 cationic asphalt may not be diluted.

**END OF SECTION**