

SECTION 35

PRIME, TACK, FOG SEAL AND FLUSH SEAL COATS

35.1 DESCRIPTION

A. General: This work consists of preparing and treating a prepared surface with asphalt material and sand as required.

B. Related Work:

Section 31	Asphalt Concrete - General
Section 32	Asphalt Concrete - Class E
Section 38	Recycled Asphalt Pavement
Section 39	Cold Mix Asphalt Concrete
Section 116	Aggregates for Asphalt Surface Treatments
Section 118	Asphalt Material
Section 203	Submittals

35.2 MATERIALS

A. Asphalt: Asphalt of the type specified on the plans shall conform to the requirements of Section 118.

B. Blotting Sand for Prime: Blotting sand for Prime shall conform to the requirements of Section 116.

C. Sand for Flush Seal: Sand for Flush seal shall conform to the requirements of Section 116.

35.3 CONSTRUCTION REQUIREMENTS

A. Weather and Seasonal Requirements:

1. **Tack Coat:** The application of a tack coat will be permitted only:

- a) When air and surface temperature on the project are both at least thirty-five degrees Fahrenheit (35° F) in the shade.
- b) When conditions are dry, except emulsified asphalt may be applied when the surface is slightly damp.
- c) During daylight hours.
- d) When the wind does not adversely affect the spraying operation.

2. **Prime Coat:** The application of a prime coat will be permitted only:
 - a) When the air and surface temperatures on the project are both at least sixty degrees Fahrenheit (60° F) in the shade. The temperature requirement may be waived by the Engineer.
 - b) When conditions are dry.
 - c) During daylight hours.
 - d) When wind does not adversely affect the spraying operation.
 3. **Fog Seal Coat:** The application of a fog seal coat will be permitted only:
 - a) When the air and surface temperatures on the project are both at least sixty degrees Fahrenheit (60° F) in the shade.
 - b) When conditions are dry.
 - c) During daylight hours.
 - d) When the wind does not adversely affect the spraying operations.
 4. **Flush Seal Coat:** The application of a flush seal coat will be permitted only:
 - a) When air and surface temperatures on the project are both at least fifty degrees Fahrenheit (50° F) in the shade.
 - b) When the surface is dry or slightly damp.
 - c) When the wind does not adversely affect the spraying operations.
 - d) During daylight hours.
- B. Dilution of Tack, Fog Seal, and Flush Seal:** Dilution of Tack, Fog Seal and Flush Seal shall meet the requirements of SDDOT Standard Specifications for Roads and Bridges, Current Edition, Section 330.3.B.
- C. Equipment:** Equipment shall meet the requirements of SDDOT Standard Specifications for Roads and Bridges, Current Edition, Section 330.3.C, with the exception that Rotary Power Brooms shall not be allowed.
- D. Surface Preparation:** Surface preparation shall meet the requirements of SDDOT Standard Specifications for Roads and Bridges, Current Edition, Section 330.3.D.
- E. Application of Asphalt:** Application of Asphalt shall meet the requirements of SDDOT Standard Specifications for Roads and Bridges, Current Edition, Section 330.3.E.

In addition, Tack shall be applied when the mat has become dirty, or when the mat has been uncovered for more than 24 hours, or when directed by the Engineer.

- F. Application of Sand:** Application of Sand shall meet the requirements of SDDOT Standard Specifications for Roads and Bridges, Current Edition, Section 330.3.F.
- G. Traffic Control:** The Contractor shall provide proper flaggers, signs, and barriers to warn, direct, and prevent traffic from getting onto the freshly applied asphalt until it has penetrated and does not track or pickup on the tires of traveling vehicles or the surface has been blotted with sand.

35.4 METHOD OF MEASUREMENT

- A. Asphalt:** Asphalt will be measured to the nearest 0.1 ton. Contractor shall provide Engineer with valid quantity tickets for asphalt, furnished and installed, showing gross, tare and net weights, project, truck, time, and initials of scale operator. Weighing shall be done on a SDDOT certified scale.
- B. Blotting Sand for Prime:** Blotting sand for prime will be paid for at the contract unit price per 0.1 ton complete in place. Payment will be full compensation for furnishing, installing, and all incidentals required to complete the work.
- C. Sand for Flush Seal:** Sand for flush seal will be paid for at the contract unit price per 0.1 ton complete in place. Payment will be full compensation for furnishing, installing, and all incidentals required to complete the work.

35.5 BASIS OF PAYMENT

- A. Asphalt:** The accepted quantities of prime coat will be paid for at the contract price per ton in place as computed from valid weigh tickets. Tickets received after forty-eight hours will not be considered valid. Separate payment will not be made for water for dilution of emulsified asphalt.
- B. Blotting Sand for Prime:** Blotting sand for prime will be paid for at the contract unit price per ton complete in place. Payment will be full compensation for furnishing, installing and all incidentals required to complete the work.
- C. Sand for Flush Seal:** Sand for flush seal will be paid for at the contract unit price per ton complete in place. Payment will be full compensation for furnishing, installing and all incidentals required to complete the work.

END OF SECTION