

SECTION 219 - FOG SEAL

1. **DESCRIPTION.** Apply asphalt material to the existing surface as specified in the contract documents.
2. **MATERIALS.** Provide CQS-1F asphalt emulsion that complies with the following.

TEST	MIN	MAX
Distillate, % from distillation	-	1
Penetration, 25°C, 100g, 5 sec, dmm	40	150
Residue by distillation, 260°C, 15 min	60	-
Saybolt Viscosity, 25°C, SSF	40	500
Sieve Test, %	-	0.10

3. CONSTRUCTION REQUIREMENTS

- a. **Preparation of Surfaces.** Before applying asphalt material, clean all foreign material from the surface to be treated. Broom surface to remove dust.
- b. **Protection of Adjacent Structures.** Protect the surfaces of all structures and other roadway appurtenances from damage or splatter of asphalt material. Restore any damaged or splattered appurtenances to their original condition at own expense.
- c. **Temperature of Asphalt Materials at Time of Application.** Apply asphalt material at the temperature shown on the producer's Bill of Lading.
- d. **Application of Asphalt Material.** Using a distributor, uniformly apply asphalt material at 0.11 - 0.14 gal/sy. Equip and operate the distributor to prevent asphalt material from dripping on the pavement.

At the beginning of each spread, start the application on a strip of building paper, approximately 3 feet in width and 1 foot longer than the spray bar. If the spray cut-off is not positive, use paper at the end of each spread. Remove and dispose of the paper in a satisfactory manner. Open the spray bar when the distributor is moving forward at proper speed, unless the distributor is equipped to apply the specified rate from a standing start. Correct any skipped areas or deficiencies. Construct junctions (joints) of spreads to obtain a smooth riding surface.

Regulate the distribution of the asphalt material to obtain a uniform application. Do not allow the distributor to "blow". Frequently check and adjust the angle of the spray nozzles and the height of the spray bar to obtain uniform distribution. If the spray bar rises as the load is removed, contributing to drilling and streaking, modify the distributor to maintain a constant spray bar height. Immediately stop distribution should any nozzle malfunction. Correct any deficiency before distribution is resumed.

- e. **Seasonal and Weather Limitations.** Construct asphalt sealing between June 1 and September 15, when the ambient air temperature is 60°F and rising, and the pavement temperature is a minimum of 70°F. Do not seal when the surface is wet, or the weather is foggy or rainy. These

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limitations may be modified with written approval from the Engineer. If the seal is damaged or lost, due to rain or wet pavement, repair or re-seal the damaged pavement.

4. MEASUREMENT AND PAYMENT. The Engineer will measure asphalt material by the ton. Such measurement and payment is full compensation for the work specified.