

Section 2306. Bituminous Fog Seal (Pavement)

2306.01 DESCRIPTION.

Clean the pavement surface and apply diluted asphalt emulsion to the entire pavement surface using a bituminous distributor.

2306.02 MATERIALS.

Unless the Engineer directs otherwise, use asphalt emulsion grade CSS-1 or SS-1.

2306.03 CONSTRUCTION.

A. Equipment.

Use equipment meeting the requirements of [Articles 2001.12](#) and [2001.14](#).

B. Cleaning.

Immediately prior to placing the emulsion, clean the entire pavement surface. Use scrapers, compressed air, or other approved methods.

C. Dilution.

Dilute the asphalt emulsion with water prior to application to the pavement surface. The dilution rate is one part of asphalt emulsion to four parts water.

D. General.

Calibrate the bituminous distributor to the specified target rate prior to start of work on the pavement surface.

E. Application.

1. Uniformly apply dilute asphalt emulsion at the rate of 0.12 gallon per square yard (0.5 L/m²) of pavement surface. The application rate may be reduced if directed by the Engineer. For excessive application rates, the Engineer may require a light coat of sand. The Engineer may require brooming of ponded areas prior to placing traffic on the pavement.
2. Use safety and convenience to the public without soiling their vehicles as a controlling factor.
3. Apply asphalt emulsion at a width of one-half of the roadway plus an overlap of approximately 4 inches (0.1 m) at the middle of the road. Cover each width in one application while the opposite one-half of the roadway is left open to public traffic.
4. Do not apply asphalt emulsion to bridge decks or railroad rails and flangeways.

F. Limitations.

1. Do not place asphalt emulsion on a damp or wet surface unless the Engineer approves. Work will not be allowed on Sundays or holidays, according to [Article 1108.03](#).
2. Apply asphalt emulsion during weather conditions which allow satisfactory application. Do not apply asphalt emulsion when either the pavement temperature or the air temperature is below 60°F (16°C). Do not apply asphalt emulsion after August 31 without the Engineer's permission.
3. A sand dam or other approved means may be necessary to prevent emulsion from running on to the pavement adjacent to the work area in areas of superelevated curves.

G. Traffic Control.

1. Asphalt emulsion applied over existing pavement markings will diminish their visibility. Install the signs of Paragraphs 3a, 3b, 3c, and 3d below.
2. Unless stated otherwise in the contract documents, furnish signs and mounting devices, including posts.
3. Furnish and install these signs as follows:

- a. **"NO PAVEMENT MARKINGS" and "NEXT_MILES" signs.**
Place at the beginning and end of the project. They may be mounted on posts or skids.
 - b. **"NO PAVEMENT MARKINGS" signs.**
Place on each side of towns and on each side of intersections of Primary and County Roads. They may be mounted on posts or skids.
 - c. **"DO NOT PASS" signs.**
Place on the right-hand side of the road at the beginning of each no-passing zone. Mount on posts.
 - d. **"PASS WITH CARE" Signs.**
Place on the right-hand side of the road at the end of each no-passing zone. Mount on posts.
4. The Contracting Authority will place new pavement markings and remove the signs when the project is complete.

H. Scheduling.

1. A preconstruction conference will be required for this work. This will normally be a single conference for all work of this type in each residency.
2. At the preconstruction conference, provide the Engineer a probable schedule for work of this type in the District jurisdiction, including the sequence for each project.

2306.04 METHOD OF MEASUREMENT.

Measurement for the items involved in construction of Bituminous Fog Seal (Pavement) will be as follows:

- A. **Asphalt Emulsion for Fog Seal (Pavement).**
Gallons (liters) of Undiluted Asphalt Emulsion as provided in [Article 2307.04, B.](#)
- B. **Sand.**
Not measured for payment.
- C. **Traffic Control.**
[Article 2528.04](#) applies.

2306.05 BASIS OF PAYMENT.

Payment for the items involved in construction of Bituminous Fog Seal (Pavement), measured as provided above, will be as follows:

- A. **Asphalt Emulsion for Fog Seal (Pavement).**
 1. Contract unit price per gallon (liter) for Undiluted Asphalt Emulsion that is mixed and used on the project. Diluted asphalt emulsion that is delivered to the job site, but not applied to the roadway surface will not be considered for payment.
 2. Payment is full compensation for:
 - a. Cleaning the pavement surface.
 - b. Furnishing and applying the diluted asphalt emulsion including water for dilution.
 - c. Furnishing and applying sand cover.
 - d. Brooming of ponded areas as necessary.
 - e. Protecting the pavement adjacent to the work area in areas of superelevated curves.
- B. **Traffic Control.**
[Article 2528.05](#) applies.