

SECTION 02748

PRIME COAT/TACK COAT

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Materials and procedures for applying:
 - 1. Prime coat: Liquid or emulsified asphalt to a prepared subgrade or untreated base course.
 - 2. Tack coat: Cutback or emulsified asphalt to the existing surface or new pavement surface and intermediate lifts.
- B. Blotter materials and procedures for absorbing excess asphalt as required.

1.2 RELATED SECTIONS

- A. Section 01554: Traffic Control.
- B. Section 02324: Compaction.
- C. Section 02745: Asphalt Material.

1.3 REFERENCES

- A. AASHTO T 27: Sieve Analysis of Fine and Coarse Aggregates.
- B. AASHTO T 201: Kinematic Viscosity of Asphalts.

PART 2 PRODUCTS

2.1 PRIME COAT

- A. Liquid or emulsified asphalt: Refer to Section 02745.
- B. Blotter material: Granular materials following AASHTO T 27, meeting the following criteria:

Sieve Size	Percent Passing
No. 4	90 to 100
No. 10	25 to 80
No. 200	0 to 15

2.2 TACK COAT

- A. Cutback or emulsified asphalt of the type and grade called for in the bid proposal and Section 02745.
- B. Tack coat referred to for paving fabrics is a PG 58-22 or PG 64-22.
- C. Do not use an emulsion or cutback in paving fabric placement.

PART 3 EXECUTION

3.1 SURFACE PREPARATION

- A. Prime Coat:
 1. Shape the surface to the required grade and section.
 2. Keep the surface free from ruts, corrugations, or other irregularities.
 3. Compact the surface following Section 02324.
- B. Tack Coat:
 1. Clean the surface of all materials that prevent the tack coat from bonding to the existing surface (e.g. mud, dirt, leaves, etc.)
 2. Cover all tacked surface areas with surfacing materials the same day the tack coat is applied.

3.2 APPLICATION

- A. Do not apply prime coat or tack coat:
 1. On a wet surface.
 2. When the surface temperature is below 50 degrees F.
 3. When weather conditions prevent it from adhering properly.
- B. Protect all structures including guardrails, guide posts, etc. from being spattered or marred.
- C. Secure approval for the quantities, rate of application, temperatures, and areas to be treated.

- D. Use a pressure distributor to apply the asphalt in a uniform, continuous spread.
- E. Keep the viscosity between 50 and 100 centistokes. AASHTO T 201.
- F. Immediately apply another application to underprimed surface.
- G. Apply a prime or tack coat to all surfaces, including vertical which will come in contact with Hot Mix Asphalt.
- H. Spread blotter material if the prime coat fails to penetrate. Use the quantities required to absorb the excess asphalt.

3.3 TRAFFIC CONTROL

- A. Refer to Section 01554.
- B. Maintain the prime coat/tack coat until the next course is placed.
- C. Keep all traffic off the prime coat until it has cured and dried.
- D. Provide detours for existing traffic.
- E. Restrict operations to allow at least one-way traffic.

END OF SECTION