

**ITEM - CHIP SEAL COAT (With PG 70-22 TR+)**

The Chip Seal Coat shall be as specified in Section 404 and 1005 of the Standard Specifications, and Contracts and Specifications Stored Specs. "404BITUM" and "1005PG", with the following exceptions:

**404-2.02(C) Cover Material:** is modified to add:

Prior to placing, the cover material shall be precoated with any grade of PG asphalt cement which meets the requirements of Section 1005 of the specifications. The precoating shall be accomplished by mixing at a central plant until the aggregate is thoroughly coated. The cover material shall have a minimum temperature of 250°F at the time of precoating with asphalt cement. The cover material shall be precoated with approximately 0.40 percent to 0.60 percent asphalt cement, by weight of the aggregate. The final percentage of asphalt cement used for precoating will be as directed by the Engineer. The end result shall be a dust free material.

**404-3.06 Application of Cover Material:** is revised to read:

Cover material shall be immediately and uniformly spread over the freshly applied bituminous material such that aggregate particles are securely adhered and will not roll, tumble, or be picked up during the rolling process. Any oversize aggregate or foreign material picked up during stockpiling or loading operations shall be eliminated before entering the aggregate spreader hopper. Supplemental spreading and smoothing shall be done by hand methods where necessary.

**404-3.07 Rolling Cover Material:** is revised to read:

Following the spreading of cover material, the surface shall be promptly rolled with self-propelled pneumatic-tired compactors. A sufficient number of compactors shall be provided to cover the width of the material spread in one pass of the compactors and this rolling shall continue until a minimum of three passes has been completed. The third pass shall be completed within 30 minutes after the initial rolling commences.

**404-3.08 Removal of Loose Cover Material:** is revised to read:

The removal of loose cover material shall commence approximately 90 minutes after the final rolling is completed; however, if because of weather conditions, temperature or other reasons, the Engineer determines that conditions are not conducive to obtaining the best results, brooming shall be discontinued until the Engineer has considered all conditions and has determined the best time for the

removal of the cover material. The cover material shall be removed by means of a power broom which shall be in good condition and of a design suitable for the work. The action of the broom shall be such that particles which are stuck to the bituminous material will not be dislodged.

**404-4 Method of Measurement:** the third paragraph is revised to read:

Cover material will be measured by the cubic yard. Cover material will be weighed, before precoating, and the amount in tons of dry material will be converted to cubic yards. The weight of all moisture contained in the cover material will be deducted prior to the conversion of the weight in tons to the volume in cubic yards. The dry weight per cubic foot will be determined in accordance with the requirements of AASHTO T19 (Shoveling Procedure).

**404-5 Basis of Payment:** is modified to add:

No measurement or direct payment will be made for precoating the cover material, material for precoating, and rolling and removal of loose cover material.

The gradation of cover material shall meet the requirements for Class 1.

The type of bituminous material shall be PG 70-22 TR+ asphalt binder.

The application rate of the bituminous material shall be \*.

The application rate of the precoated cover material shall be \*.

The average elevation of the roadway for this project is X feet.

The estimated haul distance for the cover material is \*\* miles.

DESIGNER:

Prior to using this Item, please consult with the Pavement Design Engineer.

Use this item when the average project elevation is 5,000 feet or less.

\* To be supplied by the Bituminous Engineer. The following guidelines shall be used for estimating purposes:

Condition of Pavement on which the Chip Seal Coat is to be placed.	Application Rate of Bituminous Material (Gallons per Square Yard)	Application Rate of Precoated Cover Material (Cubic Yards per Square Yard) [Pounds per Square Yard] <sup>φ</sup>	
		For Projects North of Interstate 40	For Projects South of Interstate 40
New Pavement	0.40	0.0075 [23.3] <sup>φ</sup>	0.0085 [23.0] <sup>φ</sup>
Existing Pavement in fair condition (some cracking and/or dryness)	0.45	0.008 [24.8] <sup>φ</sup>	0.009 [24.3] <sup>φ</sup>
Existing Pavement in poor condition (moderately cracked and/or dry)	0.50	0.0085 [26.4] <sup>φ</sup>	0.0095 [25.7] <sup>φ</sup>
<sup>φ</sup> The application rates of precoated cover material, in pounds per square yard, are shown for information only, and are based on a unit weight of 115 pounds per cubic foot for projects north of Interstate 40, and a unit weight of 100 pounds per cubic foot for projects south of Interstate 40.			

\*\* To be supplied by the Geotechnical Site Supervisor.