

400 FLEXIBLE PAVEMENT

ITEM 408 - PRIME COAT

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408.01 Description. This work shall consist of preparing and treating an existing surface with bituminous material, and cover aggregate if required, in accordance with these specifications and in reasonably close conformity with the lines shown on the plans or established by the Engineer.

408.02 Bituminous Material. Bituminous material of the type and grade specified shall conform to 702.

When 2 or more grades of one type of bituminous material are specified, the grade to be used shall be determined by the Engineer.

408.03 Cover Aggregate. Cover aggregate shall conform to 703.05, No. 9, or 703.06.

408.04 Weather Limitations. Bituminous material shall not be applied on a wet surface. Prime coats for road mix or surface treatment work shall not be applied when the atmospheric temperature is below 50° F (10° C) or when the air temperature within the preceding 24 hours has been 40° F (4° C) or lower. Prime coats on new stabilized and granular base courses may be applied when the atmospheric temperature is 40° F (4° C) or higher.

408.05 Equipment. Equipment shall conform to 407.03.

408.06 Preparation of Surface. The surface to be primed shall be shaped to the required grade and section, shall be free from all ruts, corrugations, segregated material or other irregularities and shall be smooth and uniformly compacted at the time of application of the bituminous material. The cleaning shall be done in such manner as to thoroughly remove all mud, earth and other foreign material. The sweeping on a water-bound surface shall be just sufficient to expose the pattern of the coarse aggregate. Special care shall be taken to clean the edges of road to be primed in order to insure uniform application of the bituminous material directly on the existing base or pavement

surface. Material cleaned from the surface shall be removed and disposed of as directed by the Engineer.

408.07 Application of Bituminous Material. Bituminous material shall be applied in a uniform continuous spread to the width of the section to be primed by means of a pressure distributor. When traffic is maintained, not more than one-half of the width of the section shall be treated in 1 application. Care shall be taken that the application of bituminous material at the junction of spreads is not in excess of the specified amount. Excess bituminous material shall be squeezed from the surface. Skipped areas or deficiencies shall be corrected.

When traffic is maintained, one-way traffic shall be permitted on the untreated portion of the road bed. As soon as the bituminous material has been absorbed by the surface and will not pick up, traffic shall be transferred to the treated portion and the remaining width of the section shall be primed. The quantity, rate of application, temperatures and areas to be treated, shall be approved before application of the prime coat.

408.08 Protection of Curb and Structures. When bituminous material is being applied, the exposed surfaces of the curb and gutter and all structures shall be protected from being marred or defaced.

408.09 Application of Cover Aggregate. If after the application of the prime coat, the bituminous material fails to penetrate within the required time and the roadway must be used by traffic, cover aggregate shall be spread in the amounts required to absorb any excess bituminous material.

408.10 Method of Measurement. The quantity of bituminous prime coat shall be the actual number of square yards (square meters) of pavement area covered with bituminous material according to the final measurements of the Engineer.

408.11 Basis of Payment. Payment for accepted quantities complete in place, including aggregate cover, will be made at the contract price for:

Item	Unit	Description
408	Square Yards (Square Meters)	Bituminous Prime Coat