# SECTION 404 - SLURRY SEAL

**404.01 Description.** This work includes the application of a slurry seal surface treatment over a prepared existing bituminous surface according to the contract.

**404.02 Materials.** Materials shall conform to:

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| Emulsified Asphalts | 702.04 |
| Aggregate for Slurry Seal | 703.11 |
| Filler | 703.15 |
| Water | 712.01 |

The slurry seal mixture includes a uniform blend of emulsified asphalt, mineral aggregate and water. Before producing slurry seal mixture, the Contractor shall submit, in writing, a job-mix formula to the Engineer for acceptance. The Contractor shall submit mineral filler, if any, for acceptance by the Engineer.

The setting time of the slurry shall be such that the Contractor can aid traffic in accordance with this contract.

The residual asphalt content of the slurry seal shall be between six (6) and sixteen (16) percent, based on the oven dry weight of the aggregate.

The residual bitumen ratio (pounds of asphalt per 100 pounds of dry aggregates) shall not vary more than five (5) percent above or below the amount designated.

**404.03 Construction Requirements**

**(A) Test Section.** Before the actual slurry seal is layed, the Contractor shall place a test section of the slurry seal using the same mixture, equipment and methods proposed for use in the actual work. The test section shall be not less than ten (10) feet by fifty (50) feet. The Engineer will decide the location, the adequacy of the method, and the minimum curing time necessary before opening roadway to traffic.

**(B) Weather Limitation.** The Contractor shall not apply slurry seal on wet pavements or when the atmospheric or pavement temperature is below sixty (60) degrees Fahrenheit.

**(C) Equipment and Tools.** Methods of doing the work and equipments, tools, and machinery used for handling materials and executing parts of the work shall be subject to the Engineer's acceptance before starting the work. If the work is unsatisfactory, the Contractor shall change the method. The Contractor shall keep the equipment, tools and machinery clean and maintain in a satisfactory condition.

Mixing or agitating equipment shall be either a portable power mixer or tank-type power mixer. A portable mixer for use in drums shall have sufficient power. The Contractor shall shape the impeller blades to mix thoroughly and pull the material upward from the bottom of the drum. The Contractor may do the mixing in round-bottom tanks equipped with a power driven mixer of sufficient capacity to maintain the mineral content of the emulsion in complete suspension.

The Contractor shall provide other tools or equipment, such as brushes, hose equipment, tank trucks, water distributors and flushers, power sweepers, power blowers, barricades, and like items as required.

**(D) Repair of Cracks and Chuck Holes.** The Contractor shall repair cracks and chuck holes before slurry seal is layed. The Contractor shall repair cracks greater than half (1/2) inch in width and chuck holes with Asphalt Concrete Pavement, Mix No. V.

**(E) Cleaning of Pavement Surfaces.** Before laying slurry seal, the Contractor shall clean the surface of the pavement free of dust, dirt and other loose foreign matter. The Contractor shall sweep the surface with hand brooms or power sweepers or clean with a power blower. The Contractor shall clean areas with cracks by removing accumulated dirt or vegetations and by blowing out the cracks with compressed air.

**(F) Application.** The Contractor shall apply the slurry seal in one (1) uniformly blended coat. The Contractor shall not exceed one-fourth (1/4) inch in thickness. The cured slurry seal shall fill cracks and voids, and adhere firmly to the existing surface. The Contractor shall equip the machine used for the application of the slurry seal mixture with a squeegee box or other proven device acceptable to the Engineer and shall use in areas large enough to warrant its use. The Contractor shall use hand squeegees only in areas where the Contractor cannot use the squeegee box. The Contractor shall pour the slurry seal mixture of the desired uniformity and consistency into the squeegee box in sufficient quantity that the Contractor can obtain complete coverage of the full width of the squeegee. The Contractor shall not allow the mixture to flow out the sides of the box. Excess build-up of the slurry seal on longitudinal or transverse joints shall be level to the finish grade. The Engineer will allow treated areas to cure until such time as the Engineer permits their opening to traffic. The Contractor shall protect these areas for the full curing period with suitable barricades or markers.

**404.04 Method of Measurement.** The Engineer will measure the slurry seal by the square yard.

The Engineer will not measure slurry seal applied beyond the slurry seal limit.

**404.05 Basis of Payment.** The Engineer will pay for the accepted quantities *| of slurry seal at the contract unit price per square yard, complete in place. *|

Payment shall be full compensation for placing the test section, | cleaning and repairing cracks and chuck holes, furnishing labors, tools, *| materials, equipment, water and incidentals necessary to complete the work. |

The Engineer will make payment under: *|

| **Pay Item** | **Pay Unit** | |
|---|---|---|
| Slurry Seal | Square Yard | |