

404.03

45 404.03 Construction.

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(A) Test Section. Before production and after calibration as specified in Subsection 404.03(C)(6) - Equipment Calibration, apply slurry seal onto test section using same mixture, equipment, and method proposed for use in the work. Test section shall be at least 10 feet by 50 feet. The Engineer will determine location of test section. Slurry seal samples will be taken to verify mix consistency, proportioning, and application rate.

(B) Weather Limitation. Application of slurry seal will not be allowed under the following conditions:

(1) On wet surfaces as determined by the Engineer.

(2) When air temperature is below 60 degrees F and falling. Slurry seal may be applied when air temperature is above 50 degrees F and rising. Air temperature will be measured in shade and away from artificial heat.

(3) When weather conditions prevent proper method of construction.

(C) Equipment.

(1) General. Keep equipment, tools, and machinery clean and maintained in satisfactory condition.

(2) Mixing Equipment. Use self-propelled machine specifically designed and manufactured to lay slurry seal. Mixing machine shall be either truck-mounted or continuous-run design. A continuous-run machine is defined as one that is equipped to self-load while continuing to lay slurry seal. Either type machine shall be able to accurately deliver and proportion aggregate, emulsified asphalt, water, and if specified by job-mix formula, filler to maintain adequate supply to the proportioning controls.

If continuous-run machine is used, equip to allow operator to have full control of forward and reverse speeds during slurry seal application; and to include opposite-side driver stations and forward and reverse speed controls.

(3) Proportioning Devices. Provide and label individual volume or weight controls for proportioning each material to be added to mix.

(4) Spreading Equipment. Spread mixture uniformly by means of conventional surfacing spreader box attached to mixer and equipped

91 to agitate and spread material evenly throughout box. Provide front
 92 seal that prevents loss of mixture at road contact point and adjustable
 93 rear seal that functions as final strike-off. Design and operate
 94 spreader box and rear strike-off such that uniform consistency is
 95 achieved to produce free flow of material to rear strike-off. Equip
 96 spreader box with means to side shift box to compensate for
 97 variations in pavement geometry. Burlap drag or other accepted
 98 screed may be attached to rear of spreader box to provide uniform,
 99 highly textured mat.

100
 101 **(5) Auxiliary Equipment.** Provide other tools or equipment, such
 102 as brushes, hose equipment, tank trucks, water distributors and
 103 flushers, power sweepers, and power blowers.

104
 105 **(6) Equipment Calibration.** Calibrate in the Engineer's presence
 106 mixing equipment to be used in performance of the work. Submittal of
 107 previous calibration documents may be used in lieu of calibration in
 108 the Engineer's presence if documented calibration were made within
 109 one calendar year of submittal. Include individual calibration of each
 110 material at various settings, which can be related to machine's
 111 metering devices. No machine will be allowed to be used on project
 112 until calibration has been completed or accepted, or both.

113
 114 After calibration and prior to production, make test strips for
 115 each machine. Test strips shall be part of test section specified in
 116 Subsection 404.03(A) - Test Section. Upon failure of test for mix
 117 consistency, proportioning, or rate of application, or combination
 118 thereof, additional test strips at no increase in contract price or
 119 contract time will be required until each machine is accepted for work.
 120 Machine failing to pass specified tests after three trials will not be
 121 allowed to be used on project.

122
 123 **(D) Preparation of Surfaces.** Immediately before applying slurry seal,
 124 clean existing pavement in accordance with Section 310 - Brooming Off.

125
 126 Clean cracks and joints with compressed air. Seal cracks and joints
 127 3/8-inch to 3/4-inch wide with sand slurry consisting of 20 percent emulsified
 128 asphalt, approximately 2 percent portland cement, and water.

129
 130 Clean potholes and other surface defects and fill with HMA Mix V.

131
 132 Do not apply tack coat.

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404.03

133 **(E) Application of Slurry Seal.** Pour slurry seal into spreader box in
134 sufficient quantity to completely cover full width of spreader. Do not allow
135 slurry seal to flow out sides of box.

136
137 Apply slurry seal in one uniformly blended coat not exceeding 1/4 inch
138 in thickness. Use hand spreaders only in areas where spreader box cannot
139 be used. Remove excess slurry seal build-up on longitudinal and transverse
140 joints.

141
142 **(F) Protection of Slurry Seal.** Except for construction equipment used
143 for slurry seal operations, keep traffic off slurry seal until such time that
144 mixture has cured sufficiently so that slurry seal will not adhere to and be
145 picked up by vehicle tires. Ensure that cured slurry seal adheres firmly to
146 existing surface.

147
148 **404.04 Measurement.** Slurry seal will be paid on a lump sum basis.
149 Measurement for payment will not apply.

150
151 **404.05 Payment.** The Engineer will pay for the accepted slurry seal on a contract
152 lump sum basis. Payment will be full compensation for the work prescribed in this
153 section and the contract documents.

154
155 The Engineer will pay for the following pay item when included in the proposal
156 schedule:

157

Pay Item	Pay Unit
Slurry Seal, Type _____	Lump Sum

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162
163

END OF SECTION 404