Construction Guide Specification for Emulsified Asphalt Fog Seal

Experiment Author AASHTO Construction Guide Specification 410 AASHTO COMP Technical Subcommittee 5b Description AASHTO COMP Technical Subcommittee 5b This guide specification is intended to provide information needed for owners or contractors to construct emulsified asphalt tog seals. An emulsified asphalt, either diluted or undiluted, to a surface and may be immediately followed by a light application of blotter sand. Immediately followed by a light application of blotter sand. Construction Equipment: Asphalt Distributor, Aggregate Spreaders. Preconstruction Meeting and aggregate spreaders. Emulsified Asphalt: That meet the requirements of AASHTO M 140 or M208. Table 2 covers typical application rates. Equipment: Calibration Eguigment Calibration Tolerance and methods of calibrating distributors and aggregate spreaders. Preconstruction to discuss specific topics listed. Read Surfae Preparation Measurement enulsified asphalt, dilution at the paplication of emulsion and aggregate. Surfae Preparation Sweep pavement no more than 30 min before application of memore thermoplastic pavement markings. Addresses topics: Weather limitations, test strips, and the application of the materials; longitudinal and transvers joint construction methods; traffic control and protection of head vehicles. Quality Control Quitine of roles for quality staff, testing facilities, stockpile management, calibration and final inspection recommendations. I final inspection recommendations. Deal breakers and no fly zone Keys that are critication of crew members. Aggregate gradation and quality specs met 3. Conduct test st		
This guide specification is intended to provide information needed for owners or contractors to construct emulsified asphalt fog seals. An emulsified asphalt greates of emulsified asphalt tog seals is the application of emulsified asphalt tog seals. An emulsified asphalt. That meet the requirements of AASHTO M 140 or M208. Table 2 covers typical application rates. Biotter sand. Materials Construction Eaulignment (Asphalt Distributor, Aggregate Spreader, Broom. Eaulignment Calibration Tolerance and methods of calibrating distributors and aggregate spreaders. Preconstruction Meeting Importance of a preconstruction meeting prior to construction to discuss specific topics listed. Measurement for tog seals can be done by either paying for the materials in unit costs. or for the completed fog seal by area of payement surface, blacken the surface to help chip seals with rock retention. Sweep pavement no more than 30 min before application of the materials; longitudinal and ransversionic construction methods; traffic control and protection of motor vehicles. Points to Undentand Addresses topics: Weather limitations, test strips, and the application of the materials; longitudinal and frail inspection recommendations. 1. Figal residual after dilution should be short he same day. Dualing caling adgrega gradation and quely specs met 3. Aggregate sphalt quality specs met 1. Dual breakers and no fly zone 4. Aggregate sphalt quality specs met 2. Aggregate gradation and quality specs met 3. Aggregate sphalt quality specs met 3. We	AASHTO Construction Guide Specification 410	AASHTO COMP Technical Subcommittee 5b
may be immediately followed by a light application of blotter sand.Emulsified Asphalt: That meet the requirements of AASHTO M 140 or M208. Table 2 covers typical application rates.ConstructionEmulsified Asphalt: That meet the requirements of AASHTO M 140 or M208. Table 2 covers typical application rates.ConstructionEmulsified Asphalt: That meet the requirements of AASHTO M 140 or M208. Table 2 covers typical application rates.ConstructionEmulsified Asphalt: That meet the requirements of AASHTO M 140 or M208. Table 2 covers typical application rates.ConstructionEmulsion by volume emulsion by volumeEquipment Calibration Tolerance of a preconstruction meeting prior to construction to discuss specific topics listed. Road Surface PreparationRemove thermoplastic pavement markings. Application and trapplication of motor vehicles. Quality Control Quality ControlOutline of roles for quality staff, testing facilities, stockpile management, calibration and quality specs met 3. Conduct test strip or ring testDeal breakers and no fly zone Keys that are critical to a successful project: 1. Emulsified asphalt quality specs met 3. Conduct test strip or ring testDeal breakers and no fly zone Keys that are critical to a successful project: 1. Emulsified asphalt quality specs met 3. Conduct test strip or ring testAggregate gradation and quality specs 4. Perform calibrations4. Perform calibrations 5. Weather requirements are met 6. Do not allow traffic until completely set5. Weather requirements are met 6. Do not allow traffic until completely set6. Do not allow traffic until completely set	This guide specification is intended to provide information needed for owners or contractors to construct emulsified asphalt fog seals. An emulsified asphalt fog seal is the application of emulsified	The terminology in this specification covers the two most typical grades of emulsified asphalt used in fog seal applications.
 Equipment: Asphalt Distributor, Aggregate Spreader, Broom. Equipment Calibration Tolerance and methods of calibrating distributors and aggregate spreaders. Preconstruction Meeting Importance of a preconstruction meeting prior to construction to discuss specific topics listed. Read Surface Preparation Sweep pavement no more than 30 min before application of emulsion and aggregate. Remove thermoplastic pavement markings. Application Addresses topics: Weather limitations, test strips, and the application of the materials; longitudinal and transvers joint construction methods; traffic control and protection of motor vehicles. Quality Control Quality Control Quality Control Quality Control Qualities certification of crew members. Aggregate gradation and workmanship. Requires certification of crew members. Aggregate gradation and quality specs met Conduct test strip or ring test Conduct test strip or ring test Aggregate gradation and quality specs met Do not allow traffic until completely set 	may be immediately followed by a light application of blotter sand.	 Emulsified Asphalt: That meet the requirements of AASHTO M 140 or M208. Table 2 covers typical application rates. Blotter Aggregate: When used, should adhere to Table 1. Normal application rate can vary from 1-
Equipment CalibrationTolerance and methods of calibrating distributors and aggregate spreaders.Preconstruction MeetingImportance of a preconstruction meeting prior to construction to discuss specific topics listed.Read Surface PreparationSweep pavement no more than 30 min before application of emulsion and aggregate.Remove thermoplastic pavement markings.ApplicationAddresses topics: Weather limitations, test strips, and the application of the materials; longitudinal and transvers joint construction methods; traffic control and protection of motor vehicles.Quality ControlOutline of roles for quality staff, testing facilities, stockpile management, calibration and workmanship. Requires certification of crew members.Apercy Acceptance Activities Inspection overview, materials acceptance testing, and final inspection recommendations.Deal breakers and no fly zone Keys that are critical to a successful project: 1. Emulsified asphalt quality specs met 3. Conduct test strip or ring test4. Perform calibrations 5. Weather requirements are met 6. Do not allow traffic until completely set	Equipment: Asphalt Distributor, Aggregate Spreader,	Emulsion by volume
 Construction to discuss specific topics listed. <u>Road Surface Preparation</u> Sweep pavement no more than 30 min before application of emulsion and aggregate. Remove thermoplastic pavement markings. <u>Application</u> If og Seals are intended as: a water and air barrier on the pavement surface, blacken the surface to help chip seals with rock retention. If diluting the emulsified asphalt, dilution at the plant is necessary to control residual content. Final residual after dilution should be at least 28% and should be shot the same day. Blotter aggregate can be used to absorb excess emulsified asphalt. Necessary application rates should be verified by conducting a test strip or ring test. Long fuelament, calibration and workmanship. Requires certification of crew members. <u>Agency Acceptance Activities</u> Inspection overview, materials acceptance testing, and final inspection recommendations. Emulsified asphalt quality specs met Aggregate gradation and quality specs met Aggregate gradation and quality specs met Aggregate gradation and quality specs met Perform calibrations Weather requirements are met Do not allow traffic until completely set 	Tolerance and methods of calibrating distributors and aggregate spreaders. <i>Preconstruction Meeting</i>	Payment Payment for fog seals can be done by either paying for the materials in unit costs, or for the completed fog seal by area of pavement sealed.
8. Trained (certified) inspector & contractor staff aggregate has been applied, if used.	construction to discuss specific topics listed. <u>Road Surface Preparation</u> Sweep pavement no more than 30 min before application of emulsion and aggregate. Remove thermoplastic pavement markings. <u>Application</u> Addresses topics: Weather limitations, test strips, and the application of the materials; longitudinal and transvers joint construction methods; traffic control and protection of motor vehicles. <u>Quality Control</u> Outline of roles for quality staff, testing facilities, stockpile management, calibration and workmanship. Requires certification of crew members. <u>Agency Acceptance Activities</u> Inspection overview, materials acceptance testing, and final inspection recommendations. Deal breakers and no fly zone Keys that are critical to a successful project: 1. Emulsified asphalt quality specs met 3. Conduct test strip or ring test 4. Perform calibrations 5. Weather requirements are met 6. Do not allow traffic until completely set 7. Incorporate a QA/QC program into spec	 Fog Seals are intended as: a water and air barrier on the pavement surface, blacken the surface to help chip seals with rock retention. If diluting the emulsified asphalt, dilution at the plant is necessary to control residual content. Final residual after dilution should be at least 28% and should be shot the same day. Blotter aggregate can be used to absorb excess emulsified asphalt. Necessary application rates should be verified by conducting a test strip or ring test. Longitudinal spray rate of emulsion is verified through calculation of tank volume and area of application. Ensure the fog seal application does not cause a significant reduction in the surface texture of the pavement. Aggregate spread is verified checking truck weight and dividing by the area covered. Application rates (volume of emulsion/area & weight of aggregate/area) are recommended daily. Ambient and pavement temperatures both need to meet requirements. Traffic may be allowed on the fog seal after the emulsified asphalt has completely set and after
	Referenced Documents	

Referenced Documents

AASHTO: M 140, M 208, T 27, T 304, AASHTO 10th Edition of Guide Specifications for Highway Construction