

ITEM 323

EMULSIFIED ASPHALT TREATMENT

323.1 Description. Emulsified asphalt treatment shall consist of one or more applications of mixture of emulsified asphalt of the type specified and water to be used as earthwork seal or surface seal. This mixture may be applied to the base course, subgrade, shoulders or pavement surface at the locations and to the extent shown on the plans.

323.2 Materials. The Asphaltic material used in the emulsion mixture, shall conform to the requirements of Item 300, "Asphalts, Oils and Emulsions", contained in the Texas Department of Transportation's "Standard Specifications For Highways, Streets and Bridges," 1993 Edition. The asphaltic material shall be CRS-2. The testing for the asphaltic material shall be done in accordance with ASTM D2397 and ASTM D244.

The asphalt emulsion shall be heated to a temperature of 110° - 160° F., before it is mixed with water. The asphalt, emulsifier and water mixture shall be applied at a rate which will give a residual asphalt coverage of 0.25 gallons per square yard.

The water shall meet the requirements of the Item, "Concrete Pavement".

323.3 Construction Methods. The emulsified asphalt and water mixture shall be applied by a self-propelled sprinkler, so operated as to uniformly distribute the mixture in the quantity determined by the Engineer.

The emulsion and water may be mixed in the sprinkler tank. The Contractor shall make suitable provisions for agitating the two materials sufficiently to produce a uniform blend. The sprinkler truck shall have been recently calibrated, and the Engineer shall be furnished an accurate and satisfactory record of such calibration. After beginning the work, should the yield of the emulsion applied appear to be in error, the distributor shall be calibrated in a manner satisfactory to the Engineer, before proceeding with the work.

Where indicated on the plans, emulsified asphalt treatment shall be mixed with the base or sub-base material. The emulsified asphalt and water mixture shall be applied and incorporated into the top portion of the sub-base or base course layers to the depth and width shown on the plans or as directed by the Engineer.

The percentage of emulsified asphalt in the mixture, shall be regulated to insure that the specified amount of emulsified asphalt is incorporated into the material, while maintaining the proper moisture content.

The treated material shall be mixed by blading, then shaped and compacted by rolling and compacted by rolling and blading, as required by the pertinent specification for the particular course, to the lines, grades and typical sections shown on the plans. The surface shall be maintained with light applications of emulsified asphalt and water, or raw water, as directed by the Engineer, during the curing of the course.

323.3 Measurement. Emulsified asphalt will be measured by the gallon of emulsified asphalt used, in the asphalt and water mixture.

323.4 Payment. The work performed and the emulsified asphalt furnished as prescribed by this item and measured as provided under measurement will be paid for at the unit price bid for "Emulsified Asphalt"; which price shall be full compensation for furnishing all required materials, including mixing water for application; for all freight involved; for all hauling, mixing and distributing the mixture as specified; and for all manipulation, labor, tools, equipment and incidentals necessary to complete the work.

Where asphalt emulsion is used in lieu of water curing, it shall not be paid for directly, but shall be incidental to that part of the work.

There are line code(s), description(s), and unit(s) for this item.

END OF ITEM 323

SUMMARY SHEET

ITEM 323 - EMULSIFIED ASPHALT TREATMENT

Other Specifications Required

None

Reference Standards

ASTM D244
ASTM D2397
THD Item 300

Description

Describes the material for and the method of application for the asphalt to be used in the emulsion and the method of application.

Payment

Paid for by the gallon of asphalt, not mixture, used for asphalt treatment.

DO NOT INCLUDE THIS SHEET IN THE CONTRACT SPECIFICATIONS