SECTION 32 12 36.13

# SEAL COAT

## PART 1 - GENERAL

### 1.1 DESCRIPTION

A. This item shall consist of a surface treatment composed of a single application of asphalt covered with aggregate for sealing existing pavements and limestone base in accordance with these Specifications. Asphaltic material shall not be placed when general weather conditions, in the opinion of the Engineer, are not suitable.

### 1.2 MEASUREMENT AND PAYMENT

A. Seal-coat will be measured and computed in square yards of material "in-place".

B. The work performed and materials furnished as prescribed and measured will be paid for at the unit price bid for "Seal-coat" which price shall be full compensation for furnishing, freight involved, preparing, hauling, and placing all materials: and for all manipulations, labor, tools, equipment and incidentals necessary to complete the work, including the necessary rolling and sweeping.

### 1.3 SUBMITTALS

A. Testing Reports showing conformance to Item No. 302 and Item No. 300 per Texas Department of Transportation Specifications 2004.

B. Calibration papers and certifications for the distributor to be used.

C. Material Safety Data Sheets.

### 1.4 WEATHER LIMITATIONS

A. The seal coat shall be applied when the air temperature is will not drop below 75° F for a period of 72 hours.

## PART 2 – PRODUCTS

### 2.1 MATERIALS

A. Asphaltic materials used in the application of the seal coat shall be AC15-5TR or HFRS-2-P as prescribed in Texas Department of Transportation Specifications 2004 Item No. 300 "Asphalts Oils and Emulsions." Aggregate used shall be Type PB, Grade 4 or Grade 5 or Trap Rock Type B, Grade 5 with grading and consensus properties as specified in Texas Department of Transportation Specifications 2004 Item No. 302 "Aggregates for Surface Treatments."

### 2.2 CONSTRUCTION EQUIPMENT

A. Asphaltic material shall be applied on the cleaned surface by an approved type of self-propelled pressure distributor operated as to distribute the material in the quantity specified, evenly and smoothly, under a pressure necessary for proper distribution. The contractor shall provide all necessary facilities for determining the temperature of the asphaltic material in all of the heating equipment and in the distributor, for determining the rate at which it is applied, and for securing uniformity at the junction of two distributor loads. The distributor shall have been recently calibrated and the Engineer shall be furnished with an accurate and satisfactory record of such calibration. After beginning the work, should the yield on the asphaltic material appear to be in

error, the distributor shall be calibrated in a manner satisfactory to the Engineer before proceeding with the work. All storage tanks, piping, booster tanks, and distributors used in storing or handling asphaltic material shall be kept clean and in good operating condition at all times, and they shall be operated in such a manner that there will be no contamination of the asphalt with foreign materials. It shall be the responsibility of the contractor to provide and maintain in good working order a recording thermometer at the storage heating unit at all times.

**2.2 TESTING REQUIREMENTS**

A. At the discretion of the Engineer, the aggregate and asphalt may be sampled and tested for conformance to Item No. 300 and 302 of the Texas Department of Transportation Specifications, 2004.

**PART 3 – EXECUTION**

**3.1. CONSTRUCTION:**

A. GENERAL: The area to be treated shall be cleaned of dirt, dust or other deleterious matter by sweeping or other approved methods. If it is found necessary by the Engineer, the surface shall be lightly sprinkled with water just prior to the application of asphaltic material.

B. AGGREGATE: Aggregate shall be immediately and uniformly applied and spread by an approved self-propelled continuous feed aggregate spreader, unless otherwise shown on the Plans or authorized by the Engineer in writing. The aggregate shall be applied at the rate of approximately one (1) cubic yard per 110 to 125 square yards of surface area. The rock shall be rolled to provide proper embedment of the aggregate to the asphalt.

Temporary stockpiling of aggregates on the roadway will be permitted provided the stockpiles are spaced not less than 1,000 feet apart. They are to be placed so that they neither obstruct traffic nor interfere with roadway drainage. The contractor shall be responsible for proper preparation of the temporary stockpile areas before aggregates are placed thereon, including leveling and cleaning of debris necessary for protection of the aggregate to prevent any contamination.

C. SURFACE: All surfaces will be rolled first with self-propelled pneumatic rollers. The entire surface shall then be broomed and excess aggregate removed. The removal of the excess rock shall take place in sufficient time so that the loose rock does not begin to break down the aggregate in place.

The contractor shall be responsible for the maintenance of the surface until the work is accepted by the Engineer. All holes or failures in the seal coat surface shall be repaired by use of additional asphalt and aggregate and all fat or bleeding surfaces shall be covered with approved cover material in such a manner that the asphaltic material will not adhere to or be picked up on the wheels of vehicles.

**END OF SECTION**