



CHEM-CRETE ASP

Guide Specification

PART 1 – GENERAL

1.1 SCOPE

The work consists of placing an asphalt based surface sealer product on the existing asphaltic concrete pavements shoulders and blast pads of Runways in accordance with these specification. This work is to be performed at least 15 days after routing and resealing of edge joints, random cracks in the asphalt pavement surface, and after asphalt pavement repairs have been completed and approved, or as recommended by the manufacturer. Areas to receive surface sealer are outlined on the construction plan views and the typical section shown for the work.

PART 2 – MATERIALS

2.1 REJUVENATING AGENT

The surface sealant should be “Chem-Crete ASP” as manufactured by International Chem-Crete Corp., or approved equal, with application as recommended by the manufacture.

2.2 EQUIPMENT

A. The Manufacture’s authorized representative will furnish all equipment, tools, and machines necessary to be used by the Contractor and shall include the following:

1. Pavement Cleaning Apparatus.

Self-propelled power broom, high pressure water or blower for cleaning pavement surfaces. The equipment shall be approved by the Construction Manager.

2. Distributors.

Distributors shall be as recommended by the surface sealer manufacturer, and shall conform to the following requirements unless exceptions are requested by the Contractor and approved by the Construction Manager.

- a. A self-powered pressure distributor equipped with a separate power unit, distributing pump capable of pumping the specified materials at the specified rate of application through the distributor tips. Any distributor that produces a streaked or irregular distribution of the material shall be promptly removed from the project.

- b. A manufacturer's approved application which maintains constant nozzle height assuring proper coverage with minimal overspraying outside the applicator.
- c. Distributor equipment shall include a tachometer, pressure gages, and volume measuring devices and mixing equipment. The spray bars on the distributor shall be controlled by a bootman riding at the rear of the distributor in such a position that operation of all sprayers is in full view and accessible to him for controlling spread widths.
- d. All distributor trucks proposed for use shall have been tested within six months from the date of spreading to determine when rate of the transverse spread. The Contractor shall furnish the Construction Manager with evidence that the transverse spread of the distributor trucks, when the trucks were approved for use, was as uniform as practicable. The Construction Manager may require that each distributor be tested to determine the rate of the transverse spread.
- e. A positive shut-off for the spray bar.
- f. A hand spray, with the hose, equipped with a positive shut-off at the spray gun.

PART 3 – EXECUTION

3.1 EXECUTION

A. Surface Preparations.

1. All areas to be sealed shall be free of pavement failure, such as base failure, alligator cracking, pot holes and releveling (loose rocks, sand, etc.) and must be repaired according to proper recommended maintenance practices and methods.
2. Prior to placing the surface sealer, all areas receiving applications of surface sealer shall be clean and free of debris, dust, dirt, oil, hydraulic fluid and all other foreign matter that will prevent rapid penetration of the sealer into the pavement, or that might absorb excessive quantities of the surface sealer. The foreign matter, loose material, and cleaning can be accomplished with a high-pressure water system, broom or blower.
3. The existing runway concrete pavement, edge stripes and edge lights will be covered and protected from operation and overspray.

B. Application

1. Surface penetrating sealer shall be applied to any patch area or new asphalt coat which has cured at least 24 hours, or as recommended by the manufacturer.
2. Surface penetrating sealer shall be applied in one application.
3. Application rate shall be 100 square feet per gallon or 10 gallons per 1000 square feet for the 1 coat application.

4. Do not dilute material.
5. The surface treatment shall be applied by a mechanical spray system.
6. All foot and vehicular traffic shall be kept off of treated surfaces a minimum of 2 hours at 70°F after completing the application.
7. Minimum temperature for application is 55°F and rising with no forecast of rain for 12 hours.

C. Quality control Program

The contractor shall establish, provide and maintain an effective quality control program that details the methods and procedures that will be taken to assure that all materials and completed construction required by this contract conform to contract plans, technical specifications and other requirements. Although guidelines are established and certain minimum requirements are specified herein and elsewhere in the contract technical requirements specifications, the contractor shall assume full responsibility for accomplishing the stated purpose.

D. Warranty

The manufacturer's authorized representative will warrant that from the date the surface sealer is applied and for a period of three years thereafter, the material will not flake, peel, chip, fade or discolor. The manufacturer's authorized representative will reapply the surface sealer, as necessary, at no cost to the Airport Board.

PART 4 – MEASUREMENTS

- 4.1 Surface Sealer for Asphalt Pavement shall be measured by the square yard of the surface that is sealed.

PART 5 – PAYMENT

- 5.1 Surface Sealer for Asphalt Pavement shall be paid for at the contract unit price per square yard. The price shall be full compensation for furnishing all materials for preparation (including the sealing of all cracks ¼" or greater in existing asphalt shoulders), mixing, and placing of these materials; and for all labor, equipment, tools, and incidentals necessary to complete the item.
- 5.2 Payment will be made under:
- Surface Sealer for Asphalt Pavement – Per Square Yard (Including crack sealing)

END OF SECTION