SECTION 32 01 14

ASPHALT PAVEMENT SEALER

PART 1 GENERAL

1.1 DESCRIPTION OF WORK

This specification covers the application of asphalt pavement sealer (seal coat) for the repair/protection of new and existing bituminous airfield pavements, roads, streets, parking areas and other general applications by the application of a chemical seal coat.

1.2 REFERENCES

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

ASTM D 490	Standard Specification for Road Tar
ASTM D 2939	Standard Tests Methods for Emulsified Bitumens Used as Protective Coatings
ASTM D 3320	Standard Specification for Emulsified Coal-Tar Pitch (Mineral Colloid Type)

1.3 SUBMITTALS

Government approval is required of all materials, designs, and procedures prior to use. The following are to be submitted in accordance with Section 01 33 00; SUBMITTAL PROCEDURES.

1.3.1 SD-03 Product Data

Equipment List
Inspection Reports
Bituminous Materials
MSDS Sheets

1.3.2 SD-06 Test Reports

Bituminous Materials
Field Test

1.4 QUALITY ASSURANCE

1.4.1 Contractor quality control shall meet the requirements of Section 01 45 10; CONTRACTOR QUALITY CONTROL.

PART 2 PRODUCTS

2.1 SEAL COAT

2.1.1 Seal coat products shall be ProtecTar Coal Tar Sealer, Star Seal Supreme, or an approved equal.

2.2 PRODUCT COMPOSITION

2.2.1 The asphalt seal coat agent shall be composed of a coal tar base product designed and manufactured to protect underlying asphalt pavement from water, chemicals, de-icing and petroleum products.

2.2.2 Products shall, at a minimum, meet the requirements set forth in ASTM D 490, ASTM D 2939, and ASTM D 3320.

PART 3 EXECUTION

3.1 MANUFACTURER’S RECOMMENDATIONS

3.1.1 The Seal Coat shall be applied in accordance with the manufacturer’s written recommendations and instructions.

3.2 PREPARATION OF THE SURFACE

3.2.1 The pavement shall be free of dirt, dust, clay, sand, vegetation and all other loose materials prior to the application of the seal coat.

3.3 APPLICATION OF THE SEAL COAT

3.3.1 Weather Conditions

3.3.1.1 The seal coat shall be applied only when the ambient air and surface temperatures are at least 50° F. and rising.

3.3.1.2 The seal coat shall not be applied on rainy and extremely humid days, or when rain is forecasted within the next 24 hours.

3.3.2 Number of Applications

3.3.2.1 The seal coat shall be applied as a two (2) coat system.

3.3.2.2 Allow the first coat to dry to the touch before applying the second coat.

3.3.3 Application Rate

3.3.3.1 The application rate shall be included in the submittal and shall be consistent with the manufacturer’s instructions.

3.3.3.2 The minimum application rate shall be 0.1 gallons per square yard.

3.3.4 Color

3.3.4.1 The finished color shall be a dark charcoal.

3.4 PLACING SEAL COAT AREAS INTO SERVICE

3.4.1 Areas which are seal coated shall be allowed to cure a minimum of 12 hours before applying striping and/or opening the area for use.

3.5 INSUFFICIENT SEAL COAT MATERIAL

3.5.1 When it is determined by the Contracting Officer that the actual application rate of the seal coat is more than twenty percent (20%) below the approved application rate, additional material shall be applied, at no additional cost

to the government, within 24 hours to insure adequate sealing of the pavement.

- End of Section -