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SECTION 32 12 36.16

TARCONITE PAVEMENT SEALING SPECIFICATION

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Refined coal tar emulsion seal coat slurry over [[new] [and] [aged]] asphalt concrete paving.

1.02 RELATED SECTIONS

A. [Section 32 17 23.13 Pavement Marking]

B. [Section 32 01 17.01 Repairing Asphalt Concrete Pavements]

C. [Section 32 01 17.61 Crack Sealing]

1.03 REFERENCES

A. Federal Specifications (FS)
   1. R-P 355e Pitch, Coal Tar Emulsion (Coating for Bituminous Pavements)

B. American Society for Testing Materials (ASTM)
   1. C 136 Method for Sieve Analysis of Fine and Coarse Aggregates
   2. D 490 Specification for Road Tar
   3. D 2939 Method for Testing Emulsified Bitumens Used as Protective Coatings
   4. D 3320 Standard Specification for Emulsified Coal-Tar Pitch (Mineral Colloid Type)
   5. D 5727 Standard Specification for Emulsified Refined Coal-Tar (Mineral Colloid Type)

1.04 SYSTEM DESCRIPTION

A. Provide two (2) applications of the coating (refined coal tar emulsion slurry) in all areas.

[B. Provide third coat in high traffic areas as shown in schedule and on drawings.]

1.05 SUBMITTALS

A. Product Data
1. Submit manufacturer's printed Product Data Sheet.

1.06 PROJECT/SITE CONDITIONS

A. ENVIRONMENTAL REQUIREMENTS
1. Apply coating when pavement temperature is a least fifty (50) degrees F. and air temperature is fifty (50) degrees F. and rising.
2. Apply coating during dry weather and when rain is not anticipated within eight (8) hours after application is completed.

PART 2 PRODUCTS

2.01 MANUFACTURER

A. Neyra Industries, Inc., Cincinnati, Ohio: Tarconite

2.02 MATERIALS

A. Sealer: Tarconite
1. An emulsion of refined coal tar specifically formulated to extend the pavement life.

B. Fortifier: Armorflex
1. A polymer fortifier for faster drying time and improved durability.

C. Crack Sealant: Neyra Thermo-Sealant PLS or Spec+Plus
1. Hot applied, elastomeric type crack sealant compatible with pavement coating.

D. Oil Spot Primer: Neyra Petrobond
1. Water based acrylic oil spot primer compatible with pavement coating.

E. Sand: As recommended in printed data sheets by sealer manufacturer.
1. Washed, dry silica sand free of dust, trash, clay, organic materials or other contaminants.
2. Gradation: To have an American Foundry Society grain fineness number that is no less than fifty (50) and no more than seventy (70), when tested in accordance with ASTM C 136.

F. Mixing Water
1. Potable and free from harmful soluble salts.
2. Temperature of the water: minimum fifty degrees (50) F.

2.03 EQUIPMENT

A. Use equipment that keeps the mixture homogeneous at all times and is capable of applying required coating weights evenly over entire width of application mechanism to provide a uniformly coated surface.

2.04 MIXES

A. Tarconite: Add water to the coating mix as required for application, quantity not to exceed forty (40) percent of refined coal tar emulsion.

B. Tarconite: Slowly add 2% Armorflex, diluted 1:1 with water, based on gallons of Tarconite concentrate.

C. Tarconite: Add three (3) to five (5) pounds of sand to the refined coal tar emulsion, and mix with power equipment to a homogeneous coating.

PART 3 EXECUTION

3.01 EXAMINATION

A. Inspect existing pavement surfaces for conditions and defects that will adversely affect quality of work, and which cannot be put into an acceptable condition through normal preparatory work as specified.

B. Do not place coating over unsound oil spots softened by fuel or oil. If this condition exists, notify Architect/Engineer.

C. Starting installation constitutes Contractor's acceptance of surface as suitable for installation.

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SPECIFIER SHOULD SELECT ONE OR BOTH SECTIONS UNDER PREPARATION BASED ON JOB REQUIREMENTS. (AGED/NEW PAVEMENT)

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3.02 PREPARATION - AGED PAVEMENT

[A. Repairing Asphalt Concrete Pavement: Repair areas shown in schedule.]

[B. Crack Sealing: Apply crack sealant as detailed in Section 32 01 17.61.]

C. Cleaning

1. Clean pavement surface prior to applying primer coat and coating.

D. Protection
   1. Protect adjacent curbs, walks, fences, and other items from receiving primer and coating.

E. Oil Spots
   1. Clean oil spots and treat with oil spot primer.

F. Priming
   1. Apply a diluted mixture of one (1) part primer and two (2) parts water at the rate of 0.03 to 0.06 gallons per square yard.

3.03 PREPARATION - NEW PAVEMENT

A. Curing
   1. Allow new asphalt to cure at least thirty (30) days before applying pavement coating.

B. Cleaning
   1. Clean pavement surface prior to applying primer coat and coating.

C. Protection
   1. Protect adjacent curbs, walks, fences, and other items from receiving primer and coating.

[D. Oil Spots
   1. Clean oil spots and treat with oil spot primer.]

[E. Priming
   1. Apply a diluted mixture of one (1) part primer and two (2) parts water at the rate of 0.03 to 0.06 gallons per square yard.]

3.04 APPLICATION

A. Apply all coats uniformly at a rate of 0.14 - 0.17 gallons per square yard per coat using mixed and diluted material.

B. Allow each coat to cure sufficiently to take traffic without scuffing.

C. Allow final coat to cure a minimum of twenty four (24) hours under good drying conditions before allowing traffic.

3.05 CLEANING AFTER APPLICATION

A. Remove primer and coating from surfaces other than those requiring primer and coating.

3.06 PROTECTION

A. Barricade coated area until the coating has dried sufficiently for traffic.

3.07 SCHEDULE

END OF SECTION