

SECTION 32 12 36.19

PAVEMENT SEALING SPECIFICATION

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Engineered resin emulsion sealcoat slurry over new and/or aged asphalt concrete paving.

1.02 RELATED SECTIONS

- A. 32 17 23.13 Pavement Marking
- B. 32 01 17.61 Crack Sealing

1.03 REFERENCES

- A. American Society for Testing and Materials (ASTM)
 - 1. C 136 Method of Sieve Analysis of Fine and Coarse Aggregates
 - 2. D 2939 Method for Testing Emulsified Bitumens used as Protective Coatings
 - 3. D 244 Standard Specification for Emulsified Asphalt
 - 4. D 3910 Practices for Design, Testing, and Construction of Slurry Seal

1.04 SYSTEM DESCRIPTION

- A. Provide two applications of the coating (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 QUALITY ASSURANCE

- A. Certification
 - Submit copy of certificate from manufacturer stating applicator is their authorized installer.

- B. Certificate of Authenticity
Submit a certificate executed by the manufacturer of the sealer stating the specific product was placed on the pavement.

1.07 PROJECT/SITE CONDITIONS

- A. ENVIRONMENTAL REQUIREMENTS
 1. Apply coating when pavement temperature is at 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.

1.08 WARRANTY

- A. Submit two (2) year written dual warranty by materials manufacturer and contractor.
- B. Warranty will include statements that warrant performance of the coating against flaking, chipping, loss of adhesion or other abnormal wear.
- C. In the event of abnormal wear within the warranty period manufacturer will supply material and contractor will recoat with specified material to the affected area at no cost to the owner.

PART 2 PRODUCTS

2.01 MANUFACTURER

- A. Neyra Industries, Inc., Cincinnati, Ohio: Jennite[®]

2.02 MATERIALS

- A. Sealer: Jennite[®]
 1. A high solids refined coal tar emulsion with pure high molecular weight polymer rubber hot blended into the tar prior to emulsification.
 2. Minimum 52% solids – with ash of non volatile in a range of 34%-38%
 3. Maximum dilution of 15 parts water per 100 parts Jennite
- B. Crack Sealant: Thermo-Seal PLS
 1. Hot applied, elastomeric type crack sealant compatible with pavement coating.
- C. Pavement Primer: Polyprime[®] (Priming is not required to obtain manufacturers warranty but may be recommended depending on condition of pavement.

- 1. Acrylic based primer compatible with pavement coating.
- D. 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.
- E. Mixing Water
 - 1. Potable and free from harmful soluble salts.
 - 2. Temperature of the water: minimum fifty (50) degrees 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 in order to provide a uniformly coated surface.

2.04 MIXES

- A. Add five (5) pounds of sand to the emulsion and mix with power equipment to a homogeneous condition. (Sand to be added after water)
- B. Add water to the coating mix as required for application not to exceed fifteen (15) per cent of emulsion.

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

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

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 coating.
- D. Protection
 - 1. Protect adjacent curbs, walks, fences, and other items from receiving coating.
- E. Priming Oil Spots
 - 1. Clean oil spots and treat with primer.
 - 2. (If priming is required apply Polyprime at a rate of .03-.06 gallons per square yard, as per Polyprime data sheet.)

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.

3.04 APPLICATION

- A. Apply all coats uniformly at a rate of 0.14 - 0.17 gallons per square yard per coat using mixed 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 any coating from surfaces other than those requiring coating.

3.06 PROTECTION

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

3.08 SCHEDULE

END OF SECTION