

SECTION 071800 - TRAFFIC COATINGS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.
- B. Traffic Coatings shall be performed in accordance with Section 610 of the New Jersey Department of Transportation Standard Specifications for Road and Bridge Construction, latest edition.

1.2 SUMMARY

- A. This Section includes traffic coatings for the following applications:
 - 1. Exterior pedestrian traffic.
 - 2. Vehicular traffic.
 - 3. Pavement markings.
- B. Related Sections include the following:
 - 1. Division 32 Section "Asphalt Paving" for HMA paving.

1.3 SUBMITTALS

- A. Product Data: For each product indicated.
- B. Shop Drawings: Show extent of each traffic coating. Include details for treating substrate joints and cracks, flashings, deck penetrations, and other termination conditions.
 - 1. Indicate layout of pavement markings.
- C. Samples for Initial Selection: For each type of finish indicated.
- D. Samples for Verification: For each type of traffic coating required, prepared on rigid backing and of same thickness and material indicated for the Work.
 - 1. Provide stepped Samples on backing large enough to illustrate buildup of traffic coatings.
- E. Qualification Data: For Installer.
- F. Material Test Reports: For each traffic coating.
- G. Material Certificates: For each traffic coating, signed by manufacturers.
- H. Field quality-control test reports.
- I. Maintenance Data: For traffic coatings to include in maintenance manuals. Identify substrates and types of traffic coatings applied. Include recommendations for periodic inspections, cleaning, care, maintenance, and repair of traffic coatings.

J. Warranty: Special warranty specified in this Section.

K. LEED Submittal:

1. Product Data for Credit EQ 4.2: For field-applied traffic coatings and pavement marking paints, including printed statement of VOC content.

1.4 QUALITY ASSURANCE

A. Installer Qualifications: Manufacturer's authorized representative who is trained and approved for installation of traffic coatings required for this Project.

B. Source Limitations:

1. Obtain traffic coatings from a single manufacturer.
2. Obtain primary traffic coating materials, including primers, from traffic coating manufacturer. Obtain secondary materials including aggregates, sheet flashings, joint sealants, and substrate repair materials of type and from source recommended in writing by primary material manufacturer.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Deliver materials in original packages and containers with seals unbroken and bearing manufacturer's labels showing the following information:

1. Manufacturer's brand name.
2. Type of material.
3. Directions for storage.
4. Date of manufacture and shelf life.
5. Lot or batch number.
6. Mixing and application instructions.
7. Color.

B. Store materials in a clean, dry location protected from exposure to direct sunlight. In storage areas, maintain environmental conditions within range recommended in writing by manufacturer.

1.6 PROJECT CONDITIONS

A. Environmental Limitations: Apply traffic coatings within the range of ambient and substrate temperatures recommended in writing by manufacturer. Do not apply traffic coatings to damp or wet substrates, when temperatures are below 40 deg F, when relative humidity exceeds 85 percent, or when temperatures are less than 5 deg F above dew point.

1. Do not apply traffic coatings in snow, rain, fog, or mist, or when such weather conditions are imminent during the application and curing period. Apply only when frost-free conditions occur throughout the depth of substrate.

B. Do not install traffic coating until items that will penetrate membrane have been installed.

1.7 WARRANTY

A. Special Warranty: Manufacturer's standard form in which traffic coating manufacturer agrees to repair or replace traffic coatings that deteriorate during the specified warranty period. Warranty does not include

deterioration or failure of traffic coating due to unusual weather phenomena, failure of prepared and treated substrate, formation of new substrate cracks exceeding 1/16 inch in width, fire, vandalism, or abuse by snowplow, maintenance equipment, and truck traffic.

1. Deterioration of traffic coatings includes the following:
 - a. Adhesive or cohesive failures.
 - b. Abrasion or tearing failures.
 - c. Surface crazing or spalling.
 - d. Intrusion of water, oils, gasoline, grease, salt, deicer chemicals, or acids into deck substrate.
2. Warranty Period: Five years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 PAVEMENT MARKINGS

- A. Pavement-Marking: Two component epoxy resin in accordance with the NJDOT Standard Specifications for Road and Bridge Construction.
 1. Color: As indicated.
 - a. Use blue for spaces accessible to people with disabilities.
- B. Glass Beads: AASHTO M 247, Type 1.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Clean and prepare substrates according to ASTM C 1127 and manufacturers written recommendations to produce clean, dust-free, dry substrate for traffic coating application.

3.2 PAVEMENT MARKINGS

- A. Do not apply traffic paint for striping and other markings until traffic coating has cured according to manufacturer's written recommendations.
- B. Apply traffic paint for striping and other markings with mechanical equipment to produce uniform straight edges. Apply at manufacturer's recommended rates for a 15-mil- minimum wet film thickness.
- C. Spread glass beads uniformly into wet traffic paint at a rate of 6 lb/gal..

3.3 PROTECTING AND CLEANING

- A. Protect traffic coatings from damage and wear during remainder of construction period.
- B. Clean spillage from adjacent construction using cleaning agents and procedures recommended by manufacturer of affected construction.

END OF SECTION 071800