



**Pacific Polymers® Elasto-Deck 6500 V.T.
Guide Specification**

SECTION 071816
LOW ODOR - VEHICULAR TRAFFIC COATING

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PART 1 - GENERAL

1.1 SUMMARY

- A. Fluid applied High Solids, Low VOC, Waterproof, vehicular traffic deck coating on concrete substrate.

1.2 RELATED SECTIONS

- A. Section 03300 – Cast-In-Place Concrete.

1.3 SUBMITTALS

- A. Product Data: Submit manufacturer's product data, installation instructions and Material Safety Data Sheets (SDS) for each product indicated.
- B. Samples:
 - 1. Submit samples of selected coating colors for approval by Architect.
 - 2. Submit 2 inch by 4 inch sample of fully cured traffic coating, prepared on rigid base indicating color and texture.
 - 3. Submit maintenance manual.

1.4 QUALITY ASSURANCE

- A. Qualifications:
 - 1. Manufacturer of the coating systems shall have a minimum of 5 years' experience in the manufacture of fluid applied traffic coatings.
 - 2. The Applicator shall be qualified in writing by the Manufacturer and shall have a minimum of 5 years' experience in application of fluid applied traffic coatings.

1.5 DELIVERY AND STORAGE

- A. Deliver materials to jobsite in sealed, undamaged containers. Each container shall be identified with material name, date of manufacture and lot number

1.6 ENVIRONMENTAL CONDITIONS

- A. Install coating materials under the following conditions:
 - 1. Rain is not anticipated within 8 hours of application.
 - 2. Substrate surface temperatures are above 40 deg. F. (5 deg. C.) and lower than 110 deg. F. (44 deg. C.).

1.7 GUARANTEE

- A. Completed installation shall be guaranteed against defects of material and workmanship for a period of 5 years, beginning with date of substantial completion of the deck coating system and inspection by the manufacturer prior to, during and after installation.

Consult ITW Polymers Sealants North America, Inc. for warranty requirements prior to system installation.

1.8 MATERIALS

- A. Vehicular Deck Traffic Coating: Pacific Polymers®, ELASTO-DECK 6500 two component, aliphatic, High Solids, Low VOC, elastomeric, traffic coating system consisting of the following products manufactured by ITW Sealants North America, Inc.
 - 1. Primer: Pacific Polymers ELASTO-POXY® Primer, W.B. epoxy primer. (Concrete substrate)
 - 2. Primer: Pacific Polymers ELASTO-POXY® Primer, VOC epoxy primer. (Concrete substrate, metal/metal flashing, inter-coat primer)
 - 3. Primer: IMPAX MMP Primer (A moisture mitigating, low odor inter-coat primer) manufactured by ITW Engineered Polymers.
 - 4. Coating: Pacific Polymers ELASTO-DECK® 6500 liquid applied, two-component, flexible, low odor polyurea deck coating.
 - 5. Color: Concrete Gray
- B. Aggregate: 20 mesh Monterey sand or as recommended by coating manufacturer.
- C. Sealant: Permthane® SM7108, one-part gun grade, non-staining, polyurethane sealant manufactured by ITW POLYMERES SEALANTS North America, Inc.
- D. Sealant: Pacific Polymers Elasto-Thane® 227/227R, two-part gun grade, non-staining, polyurethane sealant manufactured by ITW POLYMERES SEALANTS North America, Inc.
- E. Flashing Tape: Perma-Glas Mesh

1.9 TECHNICAL DATA

Standards: Complies with ASTM C957

| Property | Test Method | Results |
|-----------------------------------|--|----------------------------|
| Pot Life (@ 75o F) | | 20 minutes |
| Cure Time (@ 75o F) | | 48 hours minimum |
| Viscosity at 77°F (25°C) | Brookfield Viscometer | 35 + 5 poises |
| Weight per Gallon: A Component | | 10.5 lbs |
| Weight per Gallon: B Component | | 8.60 lbs |
| Percent Solids Content | ASTM D2369 | 98% (weight), 98% (volume) |
| Hardness (Shore A/D) | ASTM D2240 | 90-95A (40D) |
| Tensile Strength | ASTM D412 | 3000 psi + 10% |
| Percent Elongation | ASTM D412 | 300% + 10% |
| Adhesive Peel Strength on | ASTM D903 | 35 pli cohesive failure |
| Water Absorption | ASTM D471 | 1.2% by weight |
| Moisture Vapor Transmission | ASTM E96 | 3.9 perms |
| Abrasion Resistance | ASTM D4060 30 mil dry mil film on 4" x 4" metal CS17 wheel, 1000 rev, 1000 gram weight | 2 mg. wt loss |

| | | |
|-----------------|-------------------------|---|
| Tear Resistance | ASTM D624 | 280 pli + 10% |
| VOC Content | EPA Method 24 | < 19 grams/liter |
| UV Stability | Q Panel Weather-O-Meter | 2000 hrs No discoloration No physical damages |

PART 2 - EXECUTION

2.1 EXAMINATION

A. Concrete:

1. Concrete surfaces shall be trowel finished followed by a light brooming, left free of loose particles, ridges, projections, voids and droppings that can interfere with the application of the coatings.
2. Concrete surfaces shall be water cured in lieu of curing compounds for a minimum of 28 days. If curing compounds are used, pre-approve with manufacturer.
3. If concrete is poured in metal pans or decks, they shall be vented to permit proper cure of concrete.
4. If vented pans are not available, then Elasto-Poxy Primer VOC (a two component VOC compliant primer) shall be used. Apply epoxy primer at approximately 250 square feet per gallon, and provide a minimum 2 hour cure time before proceeding. At no time shall materials be applied over concrete surfaces having greater than 25% moisture content.

B. Examine substrates and remove loose surface material, grease, oil and contaminants.

C. Metal surfaces shall be dry, clean, and free of grease, oil, dirt, rust, corrosion and contaminants.

D. Metal surfaces shall be sound and fastened, free of voids and without offsets at joints. Ensure fasteners are driven flush. (Metal surfaces to be coated are primed with Elasto-Poxy Primer VOC)

2.2 PREPARATION

- A. Surfaces, which are to receive coating, shall be free of contamination including water, curing compounds, hardeners, bond-breakers and paint.

- B. Cracks shall be sealed with traffic coating and shall be reinforced by imbedding a 4-inch (10 cm) wide strip of flashing tape in wet coating, which is brushed evenly over the seam in a width of about 5 inches (12.7 cm)

2.3 APPLICATION

- A. Prime surfaces as at a rate of 200-250 square feet per gallon in accordance with manufacturer's recommendations.
- B. Lightly stir the Elasto-Deck 6500 A-Component (pigmented side) for 2-3 minutes using a jiffy blade to evenly distribute the pigments.
- C. Pour the B Component into the A Component. Mix thoroughly using a jiffy mixing blade attached to a low speed drill to a uniform color without any streaks. Mix 2-3 minutes.
- D. Once mixed, immediately pour coating onto the surface of the substrate.
- E. Use squeegee to evenly apply the coating, then back roll using a roller to break air bubbles.
- F. Apply coating to primed concrete substrate at a rate of 80 square feet per gallon. (20 mils DFT)
- G. Allow for an overnight cure. (12-16 hours)
- H. Apply broadcast coat at a rate of 80 square feet per gallon (20 mils DFT), while coating is in fluid condition, broadcast aggregate to refusal.
- I. Allow for an overnight cure. (12-16 hours)
- J. Remove excess aggregate, apply double broadcast coat (Turn Radius, Ramps-Heavy wear areas) at a rate of 80 square feet per gallon (20 mils DFT), while coating is in fluid condition, broadcast aggregate to refusal.
- K. Allow for an overnight cure. (12-16 hours)
- L. Remove excess aggregate, apply final top coat at a rate of 80 square feet per gallon. (20 mils DFT)
- M. Allow to cure a minimum of 72-96 hours before allowing vehicular traffic onto the finished system.

2.4 CLEANING

- A. Clean stains from adjacent surfaces with approved cleaner.
- B. Remove construction barricades, debris and other items of work, including empty containers, from the Project site.
- C. Remove foreign matter from finished coating surfaces.

2.5 FIELD QUALITY CONTROL

- A. After membrane has cured, flood test horizontal areas by adding water to a depth of 2 to 3 inches at outlets. Retain water at specified depth for a period of 24 hours. If leakage occurs, repair coating to the satisfaction of the Architect and retest.

END OF SECTION 071816