

**Guide Specification****PART 1 GENERAL****1.1 SUMMARY**

- A. Provide labor, materials, equipment and supervision necessary to install a fluid-applied pedestrian traffic coating system as outlined in this specification to new or existing plywood and concrete surfaces.
- B. The manufacturer's application instructions for each product used are considered part of this specification and should be followed at all times.
- C. Related Sections:
  1. Cast-in-Place Concrete: Section 03 30 \_\_\_\_.
  2. Precast Concrete: Section 03 40 \_\_\_\_.
  3. Joint Protection: Section 07 90 \_\_\_\_.

**1.2 SYSTEM DESCRIPTION**

- A. PEDA-GARD® ALIPHATIC shall be a complete system of compatible materials supplied by NEOGARD® to create a seamless waterproof membrane.
- B. PEDA-GARD® ALIPHATIC shall be designated for application on the specific type of deck indicated on the drawings.

**1.3 SUBMITTALS**

- A. Product Data: Submit NEOGARD® product literature and installation instructions.
- B. Project Reference List: Submit list of projects as required by this specification.
- C. Samples: Submit samples of specified pedestrian traffic coating system. Samples shall be construed as examples of finished color and texture of the system only.
- D. Applicator Approval: Submit letter from manufacturer stating applicator is approved to install the pedestrian traffic coating system.
- E. Warranty: Submit copy of manufacturer's standard warranty.

**1.4 QUALITY ASSURANCE**

- A. Supplier Qualifications: PEDA-GARD® ALIPHATIC, as supplied by NEOGARD®, is approved for use on this project.

- B. Applicator Qualifications: Applicators shall be approved to install specified system.
- C. Requirement of Regulatory Agencies:
  1. The pedestrian traffic coating system shall be rated Class "A" (Spread of Flame) per ASTM E108 "Standard Test Methods for Fire Tests of Roof Coverings" over non-combustible substrates.
  2. Materials used in the vehicular traffic coating system shall meet existing Federal, State and local VOC regulations.

**1.5 DELIVERY, STORAGE AND HANDLING**

- A. Delivery: Materials shall be delivered in original sealed containers, clearly marked with supplier's name, brand name and type of material.
- B. Storage and Handling: Recommended material storage temperature is 75°F. Handle products to avoid damage to container. Do not store for long periods in direct sunlight.

**1.6 JOB CONDITIONS**

- A. Environmental Conditions:
  1. Do not proceed with application of materials when deck temperature is less than 40°F.
  2. Proceed with work only when existing and forecasted weather conditions will permit the application to be performed in accordance with the manufacturer's recommendations.
  3. Do not apply materials unless surface to receive coating is clean and dry.

**1.7 WARRANTY**

- A. Upon request, NEOGARD® shall offer the manufacturer's standard warranty upon receipt of a properly executed warranty request form.

**PART 2 PRODUCTS****2.1 MANUFACTURER**

- A. NEOGARD® Division of Jones-Blair® Company, P.O. Box 35286, Dallas, TX 75235, (800) 321-6588, www.neogard.com.

**2.2 MATERIALS**

- A. Pedestrian Traffic Coating Material:
  1. Primer: Concrete and metal primers as required by NEOGARD®.
  2. Flashing Tape: 86218 flashing tape having a minimum thickness of 30 mils.
  3. Aggregate: 7992 silica (quartz) sand.
  5. Elastomeric Base Coat: 70410 series polyurethane coating.

6. Wear Coat: 7430 series polyurethane coating.
7. Elastomeric Topcoat: 7470 series aliphatic polyurethane coating.
8. Sealant: 70991 or other polyurethane sealant approved by NEOGARD®.

## 2.3 MATERIAL PERFORMANCE CRITERIA

- A. Typical physical properties of cured pedestrian traffic coating system used on this project are:

PERFORMANCE REQUIREMENTS OF CURED FILM				
PHYSICAL PROPERTIES	TEST METHOD	BASE COAT	WEAR COAT	TOPCOAT
Tensile Strength	ASTM D412	1,200 psi	2,500 psi	2,500 psi
Elongation	ASTM D412	400%	400%	250%
Permanent Set	ASTM D412	<10%	<30%	<20%
Tear Resistance	ASTM D1004	150 pli	200 pli	400 pli
Water Resistance	ASTM D471	<3% @ 7 days	<3% @ 7 days	1% @ 7 days
MVT @ 20 mils	ASTM E96	2.6 English	2 English	2.5 English
Taber Abrasion 1,000 cs-17	ASTM D4060	30 mg	25 mg	10 mg
Shore A	ASTM D2240	70-75	75-80	88-92
Adhesion	ASTM D4541	300 psi	300 psi	>400 psi
Thermal Shock	Alternate Heat/Cold	No Loss of Adhesion	No Loss of Adhesion	No Loss of Adhesion

## 2.4 ACCESSORIES

- A. Miscellaneous materials such as cleaning agents, adhesives, reinforcing fabric, backer rod, deck drains, etc. shall be a composite part of the deck system and shall be compatible with the specified pedestrian traffic coatings.

## PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Concrete: Verify that the work done under other sections meets the following requirements:
1. That the concrete deck surface is free of ridges and sharp projections. If metal forms or decks are used they should be ventilated to permit adequate drying of concrete on exterior exposed deck.
  2. That the concrete was cured for a minimum of 28 days. (Minimum of 3,000 psi compressive strength). Water-cured treatment of concrete is preferred. The use of concrete curing agents, if any, shall be of the sodium silicate base only; others require written approval by NEOGARD®.
  3. That the concrete was finished by a power or hand steel trowel followed by soft hair broom to obtain light texture or "sidewalk" finish.
  4. That damaged areas of the concrete deck be restored to match adjacent areas. Use 100% solids epoxy and sand for filling and leveling.
- B. Plywood: Verify that the plywood deck work done under other sections meets the following requirements:
1. Plywood is of exterior grade quality and minimum APA (The Engineered Wood Association) grade mark of BC EXT with B side to receive coating. Plywood shall be at least 5/8" thick. Tongue and groove plywood is preferred.

2. Joist spacing beneath plywood deck has a maximum spacing of 16" O.C.
3. The plywood deck shall be sloped a nominal 1/4" to the foot and constructed as to drain freely.
4. A maximum of 1/16" space between sheets of plywood is maintained while deck is being placed.
5. Spiral or coated nails are used and are driven flush with the surface of plywood. Nails shall not be countersunk.
6. Plywood decking is to be covered as soon as possible after installation.

### 3.2 PREPARATION

- A. Concrete:
1. Cleaning: Surfaces contaminated with oil or grease shall be vigorously scrubbed with a power broom and a strong non-sudsing detergent. Thoroughly wash, clean, and dry. Areas where oil or other contaminants penetrate deep into the concrete may require removal by mechanical methods.
  2. Shot Blasting: Required surface preparation method for remedial construction, is also the preferred method for new construction. Mechanically prepare surface by shot blasting to industry standard surface texture (ICRI's CSP3-4) without causing additional surface defects in deck surface. Shot blasting does not remove deep penetrating oils, grease, tar or asphalt stains. Proper cleaning procedures should be followed to insure proper bonding of the deck coating. Note: If shot blasting is not practical, treat concrete surfaces with 10% to 15% solution of muriatic acid to remove laitance and impurities. After acid has stopped foaming or boiling, immediately rinse thoroughly with water. Re-rinse as required to remove muriatic acid solution. Acid etching does not remove deep penetrating oils, grease, tar or asphalt stains. Proper cleaning procedures should be followed to insure proper bonding of the deck coating.
  3. Cracks and Cold Joints: Visible hairline cracks (up to 1/16" in width) in concrete and cold joints shall be cleaned, primed as required and treated with thoroughly mixed 70410 polyurethane coating material a minimum distance of 2" on each side of crack to yield a total thickness of 30 dry mils. Large cracks (over 1/16" in width) shall be routed and sealed with 70991 sealant allow to cure. Sealant shall be applied to inside area of crack only, not applied to deck surface. Detail sealed cracks with thoroughly mixed 70410 polyurethane coating material a distance of 2" on each side of crack to yield a total thickness of 30 dry mils.
  4. Control Joints: Seal secondary control joints with 70991 sealant and allow to cure. Sealant shall be applied to inside area of joint only, not applied to deck surface. Detail sealed joints with thoroughly mixed 70410 polyurethane coating material a distance of 2" on each side of joint to yield a total thickness of 30 dry mils.
  5. Flashing Tape: Install 86218 flashing tape where indicated on the drawings and/or where required by the manufacturer prior to the application of the elastomeric coating.
  6. Surface Condition: Surface shall be clean and dry prior to coating.

- B. Plywood:
1. Fill plywood imperfections with 70991 sealant and allow to cure.
  2. Joints in plywood decking to be caulked with 70991 sealant and allow to cure. Detail sealed cracks with thoroughly mixed 70410 polyurethane coating material a distance of 3" on each side of crack and embed Tietex stitchbond polyester fabric or other reinforcing fabric into wet coating. Apply additional thoroughly mixed 70410 polyurethane coating material as required to fully encapsulate fabric and smooth out wrinkles.

### 3.3 APPLICATION

- A. Seed and Lock Method
1. Primer: Where required, thoroughly mix primer and apply at a rate of 1/3 gallon per 100 square feet (300 sf/gal) to all concrete surfaces in strict accordance with procedures outlined by NEOGARD®. Within 24 hours of application of primer, base coat must be applied. If base coat cannot be applied within 24 hours, reprime.
  2. Base Coat: Thoroughly mix 70410 polyurethane coating material and apply at a rate of 1.5 gallons per 100 square feet (66 sf/gal) to deck surfaces in strict accordance with procedures outlined by NEOGARD®. Extend base coat over cracks and control joints which have received treatment.
  3. Wear Coat: Thoroughly mix 7430 series polyurethane coating material and apply at a rate of 1/2 gallon per 100 square feet (200 sf/gal) in strict accordance with procedures outlined by NEOGARD® and immediately broadcast aggregate, evenly distributed, into wet coating at the rate of 10 pounds per 100 square feet.
  4. Finish Coat: When dry, remove excess aggregate and recoat surface with thoroughly mixed 7470 polyurethane coating material at a rate of 2/3 gallon per 100 square feet (150 sf/gal) in strict accordance with procedures outlined by NEOGARD®. Total system coating thickness averages 32 dry mils exclusive of aggregate. Note to specification writer: Thickness values of cured film are averages and can vary due to finish of surface.

- B. Seed and Backroll Method
1. Primer: Where required, thoroughly mix primer and apply at a rate of 1/3 gallon per 100 square feet (300 sf/gal) to all concrete surfaces in strict accordance with procedures outlined by NEOGARD®. Within 24 hours of application of primer, base coat must be applied. If base coat cannot be applied within 24 hours, reprime.

2. Base Coat: Thoroughly mix 70410 polyurethane coating material and apply at a rate of 1-2/3 gallons per 100 square feet (60 sf/gal) to deck surfaces in strict accordance with procedures outlined by NEOGARD®. Extend base coat over cracks and control joints which have received treatment.
3. Topcoat: When dry, recoat surface with thoroughly mixed 7470 polyurethane coating material at a rate of 1 gallon per 100 square feet (100 sf/gal) and immediately broadcast aggregate at a rate of approximately 10 to 15 pounds per 100 square feet and backroll to encapsulate aggregate. Total system coating thickness averages 32 dry mils exclusive of aggregate. Note to specification writer: Thickness values of cured film are averages and can vary due to finish of surface.

### 3.4 CLEANING

- A. Remove debris resulting from completion of coating operation from the project site.

### 3.5 PROTECTION

- A. After completion of application, do not allow traffic on coated surfaces for a period of at least 24 hours at 75°F. and 50% R.H., or until completely cured.

END OF SECTION

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