

## **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 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. Section 03 30 00: Cast-in-Place Concrete
  - 2. Section 03 40 00: Precast Concrete
  - 3. Section 07 90 00: Joint Protection

### **1.2 SYSTEM DESCRIPTION**

- A. Peda-Gard Aliphatic T shall be a complete system of compatible materials supplied by Neogard to create a seamless waterproof membrane with integral wearing surface.
- B. Peda-Gard Aliphatic T shall be designated for application on the specific type of deck indicated on the drawings.

### **1.3 SUBMITTALS**

- A. Technical Data: Submit manufacturer's product data and Safety Data Sheets (SDS) on each product.
- B. Samples: Submit samples of specified pedestrian traffic coating system. Samples shall be construed as examples of finished color and texture of the system only.
- C. Applicator Approval: Submit letter from manufacturer stating applicator is approved to install the specified pedestrian traffic coating system.
- D. Warranty: Submit copy of manufacturer's standard warranty.

### **1.4 QUALITY ASSURANCE**

- A. Supplier Qualifications: Peda-Gard Aliphatic T, as supplied by Neogard, is approved for use on this project.
- B. Applicator Qualifications: Applicator shall be approved to install specified system.
- C. Requirement of Regulatory Agencies: Comply with applicable codes, regulations, ordinances and laws regarding use and application of coating systems.
- D. Field Sample:
  - 1. Install a field sample of at least 100 square feet at the project site or pre-selected area as agreed to by owner's representative, applicator and manufacturer.
  - 2. Apply material in accordance with manufacturer's written application instructions.
  - 3. Field sample will be standard for judging color and texture on remainder of project.
  - 4. Maintain field sample during construction for workmanship comparison.
  - 5. Do not alter, move, or destroy field sample until work is completed and approved by Owner's representative.

### **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/23°C. Handle products to

prevent damage to container. All materials shall be stored in compliance with local fire and safety requirements. Do not store at high temperatures or in direct sunlight.

## 1.6 PROJECT CONDITIONS

- A. Prior to starting work, read and follow the SDS and container labels for detailed health and safety information.
- B. Proceed with application of materials only when substrate temperature is 40°F/4°C or greater. Do not proceed if precipitation is imminent. Only apply to dry, clean surfaces; do not apply to damp, dirty, or frosty surfaces. Ambient temperature should be a minimum 40°F/4°C and rising, and more than 5°F/3°C above dew point. Take special precautions when ambient and/or substrate temperatures are approaching, at, or above 100°F/38°C; it may be necessary to limit material application to evening hours for exterior exposed decks.
- C. Coordinate waterproofing work with other trades. Applicator shall have sole right of access to the specified area for the time needed to complete the application and allow the pedestrian traffic coatings to cure adequately.
- D. Protect plants, vegetation or other surfaces not to be coated against damage or soiling.
- E. Keep products away from spark or flame. Do use equipment which may produce sparks during application and until all vapors have dissipated. Post "No Smoking" signs.
- F. Maintain work area in a neat and orderly condition, removing empty containers, rags and rubbish daily from the site.

## 1.7 WARRANTY

- A. Upon request, Neogard shall offer a manufacturer's standard warranty for institutional, commercial, industrial, and high-rise/multi-family residential projects only, after substantial completion of the application and receipt of a properly executed warranty request form.

## PART 2 MATERIALS

### 2.1 MANUFACTURER

- A. Neogard, a part of Hempel, 2728 Empire Central, Dallas, TX 75235, (800) 321-6588, [www.neogard.com](http://www.neogard.com).

### 2.2 MATERIALS

- A. Peda-Gard T materials (Hempel product numbers in parentheses):
  - 1. Primer: Concrete and metal primers as required by Neogard.
  - 2. Flashing Tape: 86218 (62ZJB) flashing tape.
  - 3. Reinforcing Fabric: 86220 (63BJB) reinforcing fabric (Tietex T-272).
  - 4. Sealant: Urethane sealant.
  - 5. Base Coat (two options):
  - 6. 70410 (45010) urethane coating.
  - 7. 7430 series (57040) urethane coating.
  - 8. Topcoat: AL400 PT (453JB) series integrally textured aliphatic urethane coating.

### 2.3 MATERIAL PERFORMANCE CRITERIA

- A. Typical physical properties of cured 70410 urethane used on this project are:
  - 1. Tensile Strength, ASTM D412, 1,200 psi
  - 2. Elongation, ASTM D412, 400%
  - 3. Permanent Set, ASTM D412, < 10%
  - 4. Tear Resistance, ASTM D1004, 100 pli
  - 5. Shore A, ASTM D2240, 70–75
  - 6. Adhesion, ASTM D4541, 300 psi

7. Water Resistance, ASTM D471, < 3% (7 days)
  8. Taber Abrasion, ASTM D4060, 30 mg (1,000 CS-17)
- B. Typical physical properties of cured AL400 PT series aliphatic urethane used on this project are:
1. Tensile Strength, ASTM D412, 3,200 psi
  2. Elongation, ASTM D412, 268%
  3. Permanent Set, ASTM D412, <20%
  4. Tear Resistance, ASTM D1004, 420 pli
  5. Shore A, ASTM D2240, 88-92
  6. Adhesion, ASTM D4541, >410 psi
  7. Water Resistance, ASTM D471, 1% @ 7 days
  8. Taber Abrasion, ASTM D4060, 10 mg, 1,000 CS-17
  9. MVT at 20 mils, ASTM E96 2.5 English Perm
- C. The above tested results are typical values. Individual lots may vary up to 10% from the typical value. Further technical information can be found at [www.neogard.com](http://www.neogard.com).

#### 2.4 ACCESSORIES

- A. Miscellaneous materials such as cleaning agents, adhesives, reinforcing fabric, backer rod, deck drains, and others, shall be compatible with the specified pedestrian traffic coating system.

#### 2.5 MIXING

- A. Comply with manufacturer's instructions for mixing procedures.

### 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.
  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 70714/70715-09 (45062) clear 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 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 12" and constructed 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. Prior to application of pedestrian traffic coating system, protect plywood decking from moisture.

#### 3.2 PREPARATION

- A. Concrete:
1. Cleaning: Surfaces contaminated with oil or grease shall be vigorously scrubbed with a stiff bristle broom and a strong non-sudsing detergent such as Neogard 8500 BioDegradable Cleaner (089JB). 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-CSP4) without causing additional surface defects in substrate. Shot-blasting does not remove deep penetrating oils, grease, tar or asphalt stains. Proper cleaning procedures should be followed to ensure proper bonding of the deck coating.

4. Cracks and Cold Joints: Visible hairline cracks (less than 1/16" in width) in concrete and cold joints shall be cleaned, primed as required and treated with thoroughly mixed 70410 base coat material a minimum distance of 2" on each side of crack to yield a total thickness of 30 dry mils. Large cracks (greater than 1/16" in width) shall be routed and sealed with urethane sealant. Sealant shall be applied to inside area of crack only, not applied to deck surface. Detail sealed cracks with thoroughly mixed 70410 base coat material a distance of 2" on each side of crack to yield a total thickness of 30 dry mils.
5. Control Joints: Seal control joints equal to or less than 1" in width with using urethane sealant. Depending on the width to depth ratio of the joint, backing material and a bond breaker may be required. Install sealants in accordance with ASTM C 1193 and manufacturer's instructions. Detail sealed joints with thoroughly mixed 70410 base coat material a distance of 2" on each side of joint to yield a total thickness of 30 dry mils.
6. Flashing Tape: Install 86218 flashing tape and 86220 reinforcing fabric where indicated on the drawings and/or where required by the manufacturer prior to the application of base coat.
7. Surface Condition: Surface shall be clean and dry prior to coating.

B. Plywood:

1. Fill plywood imperfections with urethane sealant and allow to cure.
2. Caulk joints in plywood decking with urethane sealant and allow to cure. Detail sealed joints with thoroughly mixed 70410 or 7430 series a distance of 3" on each side of joint and embed 86220 fabric or other reinforcing fabric into wet coating. Apply additional thoroughly mixed 70410 or 7430 series as required to fully encapsulate fabric and smooth out wrinkles.

### 3.3 APPLICATION

- A. Factors That Affect Dry Film Thickness: Volume of solids, thinning, surface profile, application technique and equipment, overspray, squeegee, brush and roller wet out, container residue, spills and other waste are among the many factors that affect the amount of wet coating required to yield proper dry film thickness. To ensure that specified dry film thickness is achieved, use a wet mil gauge to verify actual thickness of wet coating applied, adjusting as needed for those factors which directly affect the dry film build.
- B. Primer: Where required, thoroughly mix primer and apply at a rate of 300 sf/gal (0.33 gal/100 sf) to all concrete surfaces. Within 24 hours of application of primer, base coat must be applied. If base coat cannot be applied within 24 hours, inspect surface for contaminants, clean surface as necessary, and re-prime.
- C. Base Coat: Thoroughly mix 70410 or 7430 and apply at a rate of 60 sf/gal (1.66 gal/100 sf or 26 wet mils), to yield 20 dry mils. Extend base coat over cracks and control joints which have received detail treatment.
- D. Topcoat: After base coat is dry, thoroughly mix AL400 PT series and apply with a 15-25 mil notched squeegee (Orange) at a rate of 75 sf/gal (1.33 gal/100 sf or 16 wet mils) to yield 12 dry mils. Topcoat should be backrolled twice, each backroll perpendicular to the other.
- F. System coating thickness is 32 dry mils exclusive of primer.
- G. Applicator is responsible for applying sufficient coating to the substrate.

### 3.4 CLEANING

- A. Remove debris resulting from completion of coating operation from the project site.
- B. Refer to the Neogard Pedestrian Deck Coating Systems Preventive Maintenance Manual for typical cleaning methods.

### 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/23°C and 50% relative humidity, or until completely cured.

## END OF SECTION

Issued by: Hempel (USA) – Neogard Peda-Gard Aliphatic T

This Guide Specification (“**Guide Spec**”) relates to the supplied products/system (“**System**”) and is subject to update from time-to-time. Accordingly, the buyer/applicator should refer to the Guide Spec current as of the time of delivery. In addition to the Guide Spec, the buyer/applicator may receive some or all of the specifications, statements and/or guidelines listed below or available at [www.neogard.com](http://www.neogard.com) (the “**Additional Documents**”):

No.	Document Description
1	PDS
2	Guide Specification
3	Application Manual
4	Other Technical Support Information (i.e. summary application tables, troubleshooting guides, maintenance manuals, chemical resistance charts and other technical information)

In the event of a conflict between this Guide Spec and the Additional Documents, the conflict shall be resolved in accordance with the order of priority set forth above. In addition, the buyer/applicator should refer to the relevant Safety Data Sheets current as of the time of delivery of the System and available at [www.neogard.com](http://www.neogard.com). Buyer/applicator is responsible for determining the suitability of the intended use of the System, and Neogard disclaims all responsibility for any use, handling and storage of any components of the System that are not in accordance with the requirements set forth in the relevant PDS(s), this Guide Spec and the Additional Documents. The terms and provisions hereof apply to this Guide Spec, the Additional Documents and any other documents supplied by Neogard in respect of the System. The System is supplied and all technical assistance is given subject to the General Conditions of Sale of Hempel Products and/or Services available at [www.hempel.com](http://www.hempel.com). **NEOGARD MAKES NO OTHER WARRANTY THAT EXTENDS BEYOND THE WARRANTY REFERENCED THEREIN INCLUDING, WITHOUT LIMITATION, ANY IMPLIED WARRANTIES OR CONDITIONS OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. NEOGARD WILL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY OR CONDITION, OR THAT IN ANY WAY ARISE IN RELATION TO THE SYSTEM.**  
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