

## 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 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 06 15 00: Wood Decking
  - 2. Section 07 90 00: Joint Protection

### 1.2 SYSTEM DESCRIPTION

- A. Peda-Gard FR shall be a complete system of compatible materials supplied by Neogard to create a seamless waterproof membrane with integral wearing surface.
- B. Peda-Gard FR 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 FR, 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 Division of Hempel (USA), Inc., 2728 Empire Central, Dallas, TX 75235, (800) 321-6588, [www.neogard.com](http://www.neogard.com).

#### 2.2 MATERIALS

- A. Peda-Gard FR materials (Hempel product numbers in parentheses):
  - 1. Primer: 70714/70715 (45060) 100% solids epoxy primer.
  - 2. Flashing Tape: 86218 (62ZJB) flashing tape.
  - 3. Reinforcing Fabric (as required per drawings): 86220 (63BJB) reinforcing fabric (Tietex T-272).
  - 4. Concrete Bedding: prepackaged concrete mix.
  - 5. Sealant: 70991 (47XJB) urethane sealant.
  - 6. Metal Lath: 2.7 lbs per square yard, no lighter than 2.5 meshes per inch.
  - 7. Aggregate: 7992 (66010) 16/30 mesh silica quartz sand.
  - 8. Base Coat: 70410 (45010) series urethane coating.
  - 9. Wear Coat: 7430 (57040) series urethane coating.
  - 10. Topcoat: 7430 (57040) series 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 7430 series urethane used on this project are:
1. Tensile Strength, ASTM D412, 2,500 psi
  2. Elongation, ASTM D412, 400%
  3. Permanent Set, ASTM D412, < 30%
  4. Tear Resistance, ASTM D1004, 200 pli
  5. Shore A, ASTM D2240, 75–80
  6. Adhesion, ASTM D4541, 300 psi
  7. Water Resistance, ASTM D471, < 3% (7 days)
  8. Taber Abrasion, ASTM D4060, 25 mg (1,000 CS-17)
- C. Peda-Gard FR exceeds requirements for ASTM C957, "Standard Specifications for High Solids Content, Cold-Applied Elastomeric Waterproofing Membrane with Integral Wearing Surface."
- D. Peda-Gard FR meets Class A requirements for ASTM E108, "Standard Test Methods for Fire Tests of Roof Coverings."
- E. Peda-Gard FR achieves a 1 hour rating under ASTM E119, "Standard Test Methods for Fire Tests of Building Construction and Materials."
- F. 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, etc., 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. 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. Fill plywood imperfections with 70991 sealant and allow to cure.
- B. Caulk joints in plywood decking with 70991 sealant and allow to cure. Detail sealed joints with thoroughly mixed 70410 series base coat material 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 series or 7430 series base coat material as required to fully encapsulate fabric and smooth out wrinkles.
- C. Mechanically attach metal lath to plywood substrate. Metal lath shall comply with the provisions of ASTM C847.

# Guide Specification

## Peda-Gard FR

### Section 07 18 13 Pedestrian Traffic Coatings



#### 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: Thoroughly mix primer and apply 70714/70715 epoxy at a rate of 250-300 sf/gal to all 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 series and apply at a rate of 60 sf/gal (1.66 gal/100 sf or 26 wet mils), to yield 20 dry mils.
- D. Topcoat: Thoroughly mix 7430 series and apply at a rate of 100 sf/gal (1.0 gal/100 sf or 16 wet mils) to yield 12 dry mils. Immediately broadcast aggregate at a rate of approximately 10 lbs/100 sf and backroll to encapsulate aggregate.
- E. System coating thickness is 32 dry mils exclusive of primer and aggregate.
- F. 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 48 hours at 75°F (23°C) and 50% relative humidity, or until completely cured.

### END OF SECTION

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

This Guide Specification supersedes those previously issued.

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