



### Guide Specification

Note to Specifiers: This Guide Specification has been prepared by NEOGARD® in printed and electronic media, as an aid to specifiers in preparing written construction documents for Decorative Peda-Gard® Pedestrian Traffic Coatings.

## 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. Decorative PEDA-GARD® shall be a complete system of compatible materials supplied by NEOGARD® to create a seamless waterproof membrane with integral wearing surface.
- B. Decorative PEDA-GARD® 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 material safety data sheets (MSDS) 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: Decorative PEDA-GARD®, 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 Material Safety Data Sheet (MSDS) and container labels for detailed health and safety information.
- B. Do not proceed with application of materials when substrate temperature is less than 40°F (4°C) if precipitation is imminent, or to a damp, unclean or frosty surface. Ambient temperature should be a minimum 40°F (4°C) and rising, and more than 5°F (3°C) above dew point. Special precautions are to be taken when ambient and/or substrate temperatures are approaching, at, or above 100°F (38°C) and 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 not allow the use of spark-producing equipment 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

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 PRODUCTS

### 2.1 MANUFACTURER

A. NEOGARD® Division of Jones-Blair® Company, 2728 Empire Central, Dallas, TX 75235, (800) 321-6588, www.neogard.com.

### 2.2 MATERIALS

- A. Pedestrian Traffic Coating Materials:
1. Primer: Concrete and metal primers as required by NEOGARD®.
  2. Flashing Tape: 86218 flashing tape.
  3. Reinforcing Fabric: 86220 reinforcing fabric (Tietex T-272).
  4. Sealant: 70991 or 70995 urethane sealant.
  5. Aggregate: Contact NEOGARD® for available colors.
    - a. Series 1: Estes Permacolor HP Quartz Granules (UV-stable), Medium (20/70 mesh).
    - b. Series 2: Trowel-Rite® (20/40 mesh) inorganic UV-stable quartz aggregate.
  6. Base Coat: 70410 or 7430 Series polyurethane coating.
  7. Wear Coat: 7430 Series polyurethane coating.
  8. Topcoat: Clear 70805/7952 CRU, 70815/70816 CRU, 70866/70816 Polyaspartic, Acrylithane HS2 or Acrylithane HS4.

### 2.3 MATERIAL PERFORMANCE CRITERIA

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

PERFORMANCE REQUIREMENTS OF CURED FILM			
PHYSICAL PROPERTIES	TEST METHOD	70410	7430
Tensile Strength	ASTM D412	1,200	2,500
Elongation	ASTM D412	400%	400%
Permanent Set	ASTM D412	<10%	<30%
Tear Resistance	ASTM D1004	100 pli	200 pli
Water Resistance	ASTM D471	<3%	<3% @ 7 days
Taber Abrasion, 1,000 cs-17	ASTM D4060	30 mg	25 mg
Shore A	ASTM D2240	70-75	75-80
Adhesion	ASTM D4541	300 psi	300 psi

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 <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. 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 clear 100% solids epoxy and sand for filling and leveling.

### 3.2 PREPARATION

- A. 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. Thoroughly wash, clean, and dry. Areas where oil or other contaminants penetrate deep into the concrete may require removal by mechanical methods.
- B. 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.
- C. Hydro-blast: If shot blasting is not practical, hydro-blasting using a minimum of 4,000 psi at tip, within 6" of substrate is acceptable to achieve a surface profile of ICRI's CSP3 - CSP4, without causing additional surface defects in deck surface. Proper cleaning procedures must be followed to ensure proper bonding of the deck coating.

- D. 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 or 7430 Series 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 70991 or 70995 sealant. Sealant shall be applied to inside area of crack only, not applied to deck surface. Detail sealed cracks with thoroughly mixed 70410 or 7430 Series base coat material a distance of 2" on each side of crack to yield a total thickness of 30 dry mils.
- E. Control Joints: Seal control joints equal to or less than 1" in width with 70995 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 or 7430 Series base coat material a distance of 2" on each side of joint to yield a total thickness of 30 dry mils.
- F. 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.
- G. Surface Condition: Surface shall be clean and dry prior to coating.

### 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.
  - 1. Series 1:
    - a. 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.
    - b. Base Coat: Thoroughly mix 70410 or 7430 Series 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.
    - c. Wear Coat: Thoroughly mix 7430 Series wear coat material and apply at a rate of 150 sf/gal (0.66 gal/100 sf or 10 wet mils), to yield 8 dry mils, and immediately broadcast Estes Permacolor HP Quartz Granules (UV stable), medium (20/70

- mesh), evenly distributed, into wet coating at a rate of approximately 50 lbs/100 sf or until refusal. When dry, remove excess aggregate.
- d. First Topcoat: Thoroughly mix Topcoat material and apply at a rate of 150 sf/gal (0.66 gal/100 sf or 10 wet mils) to yield 10 dry mils (70815/70816 CRU, 70866/70816 Polyaspartic) or 6 dry mils (70805/7952 CRU, Acrylithane HS2 or Acrylithane HS4).
- e. Second Topcoat: Thoroughly mix Topcoat material and apply at a rate of 200 sf/gal (0.5 gal/100 sf or 8 wet mils) to yield 8 dry mils (70815/70816 CRU, 70866/70816 Polyaspartic) or 5 dry mils (70805/7952 CRU, Acrylithane HS2 or Acrylithane HS4).

**Note: It is recommended to apply topcoats in a cross hatch pattern for best coverage and uniformity of appearance. Depending on the desired texture/finish of the system, additional topcoats may be necessary. The Field Sample, under Section 1.4.D, will provide confirmation of coverage rates for topcoat. System coating thickness is 40 dry mils exclusive of primer and aggregate.**

- 2. Series 2:
  - a. 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.
  - b. Base Coat: Thoroughly mix 70410 or 7430 Series 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.
  - c. Wear Coat: Thoroughly mix 7430 Series wear coat material and apply at a rate of 120 sf/gal (0.83 gal/100 sf or 13 wet mils), to yield 10 dry mils, and immediately broadcast Trowel-Rite® (20/40 mesh) inorganic UV stable quartz aggregate, evenly distributed, into wet coating at a rate of approximately 50 lbs/100 sf or until refusal. When dry, remove excess granules.
  - d. First Topcoat: Thoroughly mix Topcoat material. Apply 70815/70816 CRU or 70866/70816 Polyaspartic at a rate of 150 sf/gal (0.66 gal/100 sf or 10 wet mils) to yield 10 dry mils. Apply 70805/7952 CRU, Acrylithane HS2 or Acrylithane HS4 at a rate of 133 sf/gal (0.75 gal/100 sf or 12 wet mils) to yield 7 dry mils.
  - e. Second Topcoat: Thoroughly mix Topcoat material and apply at a rate of 200 sf/gal (0.5 gal/100 sf or 8 wet mils) to yield 8 dry mils (70815/70816 CRU, 70866/70816 Polyaspartic) or 5 dry mils (70805/7952 CRU, Acrylithane HS2 or Acrylithane HS4).

**Note: It is recommended to apply topcoats in a cross hatch pattern for best coverage and uniformity of appearance. Depending on the desired texture/finish of the system, additional topcoats may be necessary. The Field Sample, under Section 1.4.D, will provide confirmation of coverage rates for topcoat. System coating thickness is 40 dry mils exclusive of primer and aggregate.**

### **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 (24°C) and 50% R.H., or until completely cured.

**END OF SECTION**

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