

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

- A. Provide labor, materials, equipment and supervision necessary to install a fluid-applied vehicular 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. Cast-in-Place Concrete: Section 03 30 ___.
 2. Precast Concrete: Section 03 40 ___.
 3. Joint Protection: Section 07 90 ___.

1.2 SYSTEM DESCRIPTION

- A. AUTO-GARD® F shall be a complete system of compatible materials supplied by NEOGARD® to create a seamless waterproof membrane.
- B. AUTO-GARD® F 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 vehicular 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 vehicular traffic coating system.
- E. Warranty: Submit copy of manufacturer's standard warranty to cover a period of 5 years.

1.4 QUALITY ASSURANCE

- A. Supplier Qualifications: AUTO-GARD® F, 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. 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. Do not apply materials unless surface to receive coating is clean and dry, or if precipitation is imminent.

1.7 WARRANTY

- A. Upon request, NEOGARD® shall offer a 5 year 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, 2728 Empire Central, Dallas, TX 75235, (800) 321-6588, www.neogard.com.

2.2 MATERIALS

- A. Vehicular Traffic Coating Material:
 1. Primer: Concrete and metal primers as required by NEOGARD®.
 2. Flashing Tape: 86218 flashing tape or approved equal having a minimum thickness of 30 mils.
 3. Liquid Flashing: FC7500/FC7960 polyurethane coating.
 4. Aggregate: Uniformly graded #3 or #4 flint.
 5. Base Coat: FC7500/FC7960 polyurethane coating, gray in color.
 6. Wear Course: FC7510/FC7961 series polyurethane or, 70714/70715-09 100% solids epoxy.

7. Topcoat (Interior Use): 70714/70715-09 100% solids pigmented epoxy.
8. Topcoat (Exterior Use): FC7520/FC7962 or FC7540/FC7964 series polyurethane coating.
9. Sealant: 70991 or other polyurethane sealant approved by NEOGARD®.

2.3 ACCESSORIES

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

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 4,000 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.

3.2 PREPARATION

- A. Protection:
1. Protect plants, vegetation and animals which might be affected by coating. Use drop cloths or masking as required.
- B. Surface Preparation:
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 liquid flashing 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 sealant. Sealant shall be applied to inside area of crack only, not applied to deck surface. Detail sealed cracks with liquid flashing 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 sealant. Sealant shall be applied to inside area of joint only, not applied to deck surface. Detail sealed joints with liquid flashing a distance of 2" on each side of joint to yield a total thickness of 30 dry mils.
5. Flashing Tape: Install flashing tape where indicated on the drawings prior to the application of elastomeric coating.
6. Surface Condition: Surface shall be clean and dry prior to coating.

3.3 APPLICATION

- A. Primer: Where required, apply 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.
- B. Base Coat: Apply 1.25 gallons per 100 square feet (80 sf/gal) of FC7500/FC7960 coating material to deck surfaces in one coat to yield an average of 20 dry mils in strict accordance with procedures outlined by NEOGARD®. Extend base coat over cracks and control joints which have received treatment.
- C. Wear Coat: Apply 3/4 gallon per 100 square feet (133 sf/gal) of 70714/70715-09 100% solids epoxy or FC7510/FC7961 urethane coating material to yield an average of 12 dry mils in strict accordance with procedures outlined by NEOGARD® and immediately broadcast #3 or #4 flint, evenly distributed, into wet coating to point of rejection.
- D. Finish Coat: For interior applications, when wear coat is dry, remove excess aggregate and apply 1.5 gallons per 100 square feet (66 sf/gal) of 70714/70715-09 100% solids pigmented epoxy coating material to yield an average of 24 dry mils. For exterior applications, apply 1.5 gallons per 100 square feet (66 sf/gal) of FC7520/FC7962 or FC7540/FC7964 urethane coating material to yield an average of 24 dry mils in strict accordance with procedures outlined by NEOGARD®. Note: Total system coating thickness averages 56 dry mils exclusive of aggregate.

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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