

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

- A. Provide labor, materials, equipment and supervision necessary to install a reflecting pool waterproofing system as outlined in this specification.
- 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. The reflecting pool waterproofing coating shall be a complete system of compatible materials supplied by NEOGARD® to create a seamless waterproof membrane.
- B. The reflecting pool waterproofing coating 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 Pool-Gard C system. Samples shall be construed as examples of finished color and texture of Pool-Gard C system only.
- D. Applicator Approval: Submit letter from manufacturer stating applicator is approved to install the Pool-Gard C system.
- E. Warranty: Submit copy of manufacturer's Limited Material Warranty to cover a period of one year.

1.4 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Pool-Gard C, as supplied by NEOGARD® is approved for use on this project.
- B. Applicator Qualifications: Applicators shall be approved to install specified system.
- C. Requirements of Regulatory Agencies: Materials used in the Pool-Gard C 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 PROJECT 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 one year Limited Material 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 35288, Dallas, TX 75235, (800) 321-6588, www.neogard.com.

2.2 MATERIALS

- A. Pool-Gard C Coating Materials:
 1. Primer: 7740/7741 100% solids epoxy primer.
 2. Elastomeric Coating: 7825/7821 polyurethane coating, black in color. Note: Exterior applications exposed to UV, must be topcoated with exterior finish coat.

3. Exterior Finish Primer: 33014/99951 Ureprime HS4 epoxy urethane primer.
4. Exterior Finish Coat: ACRYLITHANE™ series urethane enamel. Special colors are available upon request.
5. Tape: 86218 flashing tape having a minimum thickness of 30 mils.
6. Sealant: 70991 or other polyurethane sealant approved by NEOGARD®.

2.3 MATERIAL PERFORMANCE CRITERIA

- A. Typical physical properties of cured elastomeric coating to be used on this project are:

PERFORMANCE REQUIREMENTS OF CURED FILM		
PHYSICAL PROPERTIES	TEST METHOD	RESULTS
Tensile Strength	ASTM D412	1,500 psi
Elongation	ASTM D412	300%
Permanent Set	ASTM D412	20%
Tear Resistance	ASTM D1004	160 pli
Water Resistance	ASTM D471	2%
MVT @ 20 mils	ASTM E96	0.5 English
Taber Abrasion	ASTM D4060	5 mg/1,000 cs-17
Shore A	ASTM D2240	80 - 85
Adhesion	ASTM D4541	400 psi
Weathering Resistance	ASTM D822	Slight Chalking
Thermal Shock	Alternate Heat/Cold	No Loss of Adhesion

2.4 ACCESSORIES

- A. Miscellaneous materials such as cleaning agents, adhesives, backer rod, drains, etc. shall be compatible with the specified reflecting pool waterproofing 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. In-ground reflecting pools may require a vapor barrier prior to placing concrete. Consult NEOGARD® for details.
 3. 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®.
 4. That the concrete was finished by a power or hand steel trowel followed by soft hair broom to obtain light texture or "sidewalk" finish.

5. 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: 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. Etching: 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. Note: If acid etching is not practical, shot-blasting is an acceptable alternative. However, proper care and procedure should be taken to leave the concrete surface as unopened as possible.
 3. Concrete Patching: Ridges and sharp projections should be ground off and pits, holes and low spots should be filled smooth with 100% solids epoxy and sand mixture at a ratio of one part epoxy to four parts sand. The repairs should be done after any chemical cleaning or acid etching treatments and the epoxy patch allowed to cure approximately one day at 75°F to 80°F.
 4. Cracks and Cold Joints: Visible hairline cracks (up to 1/16" in width) in concrete and cold joints shall be cleaned, primed and treated with thoroughly mixed 7825/7821 elastomeric 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. Sealant shall be applied to inside area of crack only, not applied to deck surface. Detail sealed cracks with thoroughly mixed 7825/7821 elastomeric coating material a distance of 2" on each side of crack to yield a total thickness of 30 dry mils.
 5. Control Joints: Seal secondary control joints with 70991 sealant. Sealant shall be applied to inside area of joint only, not applied to deck surface. Detail sealed joints with thoroughly mixed 7825/7821 elastomeric coating 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 where indicated on the drawings and/or where required

by the manufacturer prior to the application of elastomeric coating.

7. Surface Condition: Surface shall be clean and dry prior to coating.

3.3 APPLICATION

- A. Primer: Apply thoroughly mixed 7740/7741 primer at a rate of 1/2 gallon per 100 square feet (200 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 thoroughly mixed 7825/7821 elastomeric coating material at a rate of 1.5 gallons per 100 square feet (66 sf/gal) to all prepared surfaces to yield an average 24 dry mils in strict accordance with procedures outlined by NEOGARD®. Extend base coat over cracks and control joints which have received treatment.
- C. Topcoat: Apply thoroughly mixed 7825/7821 elastomeric coating material at a rate of 1.5 gallons per 100 square feet (66 sf/gal) to yield an average 24 dry mils in strict accordance with procedures outlined by NEOGARD®. Note: Vertical surfaces may require additional coats to build film to design thickness.
- D. Exterior Finish Primer: Apply thoroughly mixed 33014/99951 Ureprime HS4 at a rate of 1/3 gallons per 100 square feet (300 sf/gal) over the 7825/7821 topcoat when cured.
- E. Exterior Finish Coat: Apply two coats of thoroughly mixed ACRYLITHANE™ series urethane enamel at the rate of 1/2 gallon per 100 square feet (200 sf/gal) per coat in strict accordance with procedures outlined by NEOGARD®.

CAUTION: ALLOW ENTIRE POOL-GARD C COATING SYSTEM TO CURE FOR A MINIMUM OF TEN DAYS PRIOR TO FILLING WITH WATER.

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 48 hours at 75°F. and 50% R.H., or until completely cured.

END OF SECTION

POOL-GARD C IS NOT APPROVED FOR POTABLE WATER

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