



Guide Specification

Reflecting Pool Waterproofing

Pool-Gard C

PART 1 - GENERAL

1.01 SUMMARY

- A. Provide labor, materials, equipment and supervision necessary to install a fluid-applied, reflecting pool coating system as outlined in this specification.
- B. The manufacturers application instructions for each product used are considered part of this specification and should be followed at all times.
- C. Related Sections:
 1. Expansion and Contraction Joints: Section 0315_____.
 2. Cast-in-Place Concrete: Section 0330_____.
 3. Sealants: Section 0790_____.

1.02 SYSTEM DESCRIPTION

- A. Pool-Gard C shall be a complete system of compatible materials supplied by Neogard to create a seamless waterproof membrane.
- B. Pool-Gard C shall be designated for application on the specific type of deck indicated on the drawings.

1.03 SUBMITTALS

- A. Product Data: Submit Neogard's product literature and installation instructions.
- B. Project Reference List: Submit list of projects as required by this specification.
- C. Samples: Submit samples of specified reflecting pool 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 reflecting pool coating system.
- E. Warranty: Submit copy of manufacturer's standard product warranty to cover a period of one year.

1.04 QUALITY ASSURANCE

- A. Supplier 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 reflecting pool coating system shall meet existing Federal, State and local VOC regulations.

1.05 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.

1.06 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.
- B. Safety and Health Conditions:
 1. During coating application, it is **essential** that maximum effort is made to protect the coating mechanic and others near the workplace from breathing vapors and coming in contact of material with skin or eyes.
 2. In confined areas, the best form of protection against organic solvents or other potentially sensitizing vapors is a **fresh air supply**. For maximum protection, it is recommended to use NIOSH/MSHA-approved, self-contained breathing apparatus with a full-face piece operated in a positive pressure mode.
 3. In unrestricted (open outdoor) areas, it is recommended to wear a suitable mask or respirator of a type approved by NIOSH/MSHA.
 4. To prevent excessive skin contact with the material, it is recommended to use fabric coveralls and neoprene or other resistant gloves. To prevent eye contact, wear a full-face mask or OSHA-approved protective goggles.
- C. Protection:
 1. Keep products away from heat, sparks, and flames. Do not allow use of spark producing equipment during application and until vapors are gone. Post "No Smoking" signs.
 2. The overspray and/or solvents from coatings can carry considerable distances and care should be taken to do the following:
 - a. Post warning signs a minimum of 100 feet from the work area.
 - b. Mask off or cover all air intakes near the work area to prevent odors from entering occupied areas of the building or structure.
 - c. Set up wind breaks when needed.
 - d. Minimize or exclude all personnel not directly involved with the coating application.
 - e. Have CO₂ or other dry chemical fire extinguishers available at the jobsite.
 - f. Provide adequate ventilation.
 3. 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. Allow entire system to cure seven days prior to filling reflecting pool with water.

4. Protect plants, vegetation and animals which might be affected by coating. Use drop cloths or masking as required.

PART 2 - PRODUCTS

2.01 MATERIALS

- A. Reflecting Pool Coating Material:
 1. Primer: 7740/7741 100% solids epoxy primer.
 2. Sheet Flashing: 6" or 12" wide uncured non-staining elastomeric sheet flashing material having a minimum thickness of 60 mils.
 3. Liquid Flashing: 7820 series/7821 polyurethane coating, gray or black in color.
 4. Elastomeric Coating: 7820 series/7821 polyurethane coating, gray or black in color.
 5. Sealant: 70991 or other polyurethane sealant approved by Neogard.

2.02 MATERIAL PERFORMANCE CRITERIA

- A. Minimum performance requirements for the elastomeric coating material 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 (cs17) | ASTM D4060 | 5 mg/1,000 rev |
| 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 |

PART 3 - EXECUTION

3.01 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.

3.02 PREPARATION

- A. 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.
- B. 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.
- C. 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 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.
- D. 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.
- E. Sheet Flashing: Install sheet flashing where indicated on the drawings prior to the application of base coats.
- F. Surface Condition: Surface shall be clean and dry prior to coating.

3.03 APPLICATION

- A. Primer: Apply 1/2 gallon per 100 square feet (200 sf/gal) of primer 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, re-prime.
- B. Base Coat: Apply 1 gallon per 100 square feet (100 sf/gal) of 7820 series/7821 elastomeric coating to deck surfaces to yield an average 16 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 1 gallon per 100 square feet (100 sf/gal) of 7820 series/7821 elastomeric coating to deck surfaces to yield an average 16 dry mils in strict accordance with procedures outlined by Neogard. Vertical surfaces may require additional coats to build film to design thickness.
- D. Optional Topcoat: Acrylithane HS/2 can be applied to the 32 mil system when added chemical resistance or special colors are required. Consult

Neogard for recommendations.

*Note to specification writer: Thickness values of cured film are averages and can vary due to finish of surface.

3.04 CLEANING

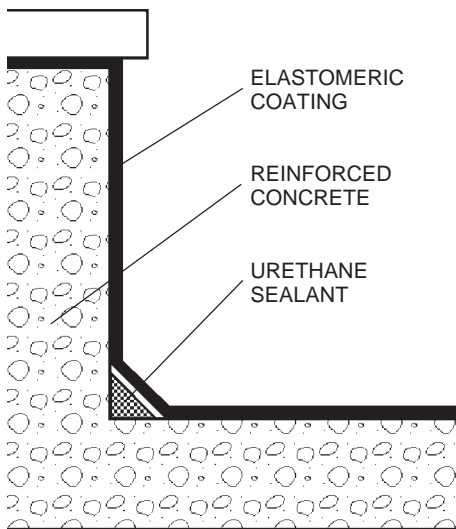
- A. Remove debris resulting from completion of coating operation from the project site.

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

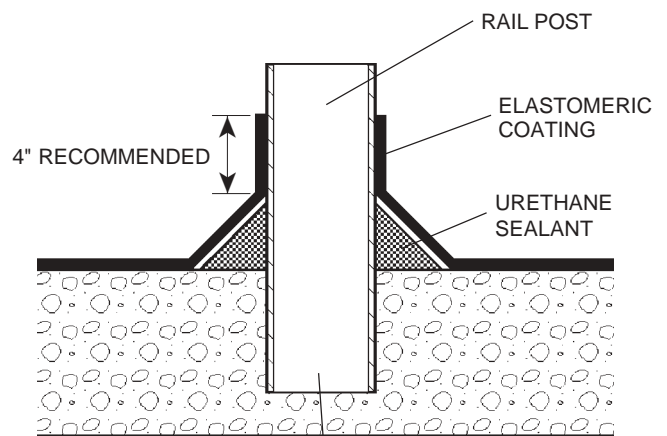
POOL-GARD IS NOT APPROVED FOR POTABLE WATER

SURFACE APPLIED WATERPROOFING DETAILS

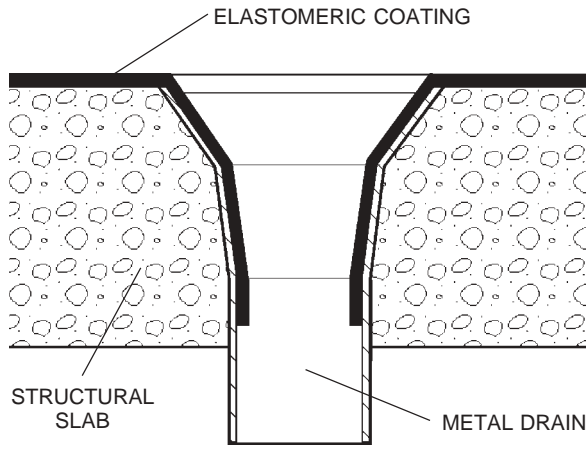
The following details are utilized in the specification and design of surface applied waterproofing, in both new and retrofit applications. They are provided to show a generally recommended procedure for dealing with the condition shown. They will not and can not provide a specific solution for every condition likely to be encountered in field application. Where field conditions differ, the use of applicable portions of the details shown or their adaptation by an experienced and conscientious applicator should result in a quality project.



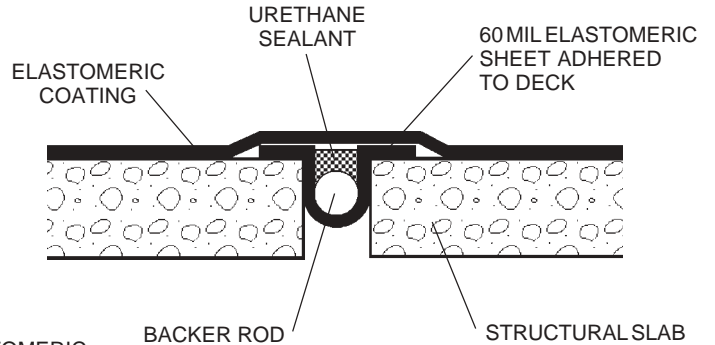
REFLECTING POOL



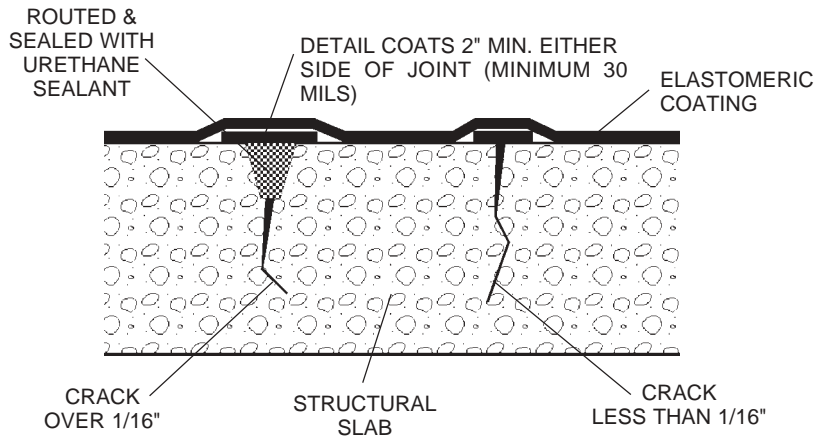
VERTICAL PROJECTION



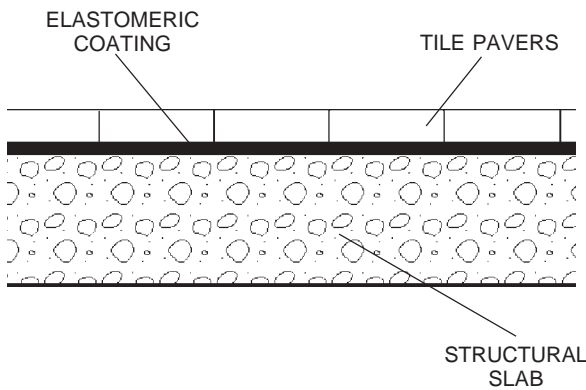
DRAIN DETAIL



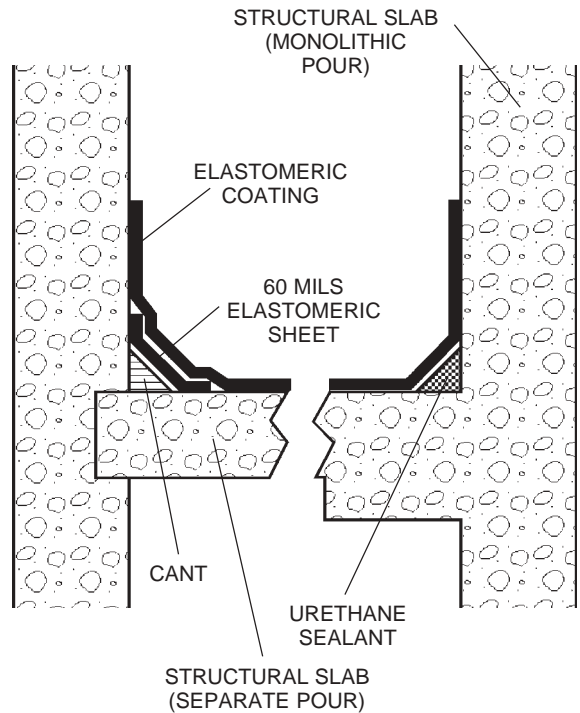
EXPANSION JOINT



CRACK DETAIL



THIN-SET TILE



TYPICAL DECK FLASHING

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NEOGARD

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