PART 1 GENERAL

1.1 SUMMARY

A. Provide labor, materials, equipment and supervision necessary to install a fluid-applied, decorative concrete and masonry coating 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. Section 03 30 00: Cast-in-Place Concrete
2. Section 03 41 00: Precast Structural Concrete
3. Section 04 20 00: Unit Masonry

1.2 SYSTEM DESCRIPTION

A. Neocrylic shall be a complete system of compatible materials supplied by Neogard to create a seamless coating system.

B. Neocrylic shall be designated for application on the specific type of surface 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 concrete and masonry coating system. Samples shall be construed as examples of finished color and texture of the coating system only.

D. Applicator Approval: Submit letter from manufacturer stating applicator is approved to install the decorative concrete and masonry coating system.

E. Warranty: Submit copy of manufacturer's standard warranty.

1.4 QUALITY ASSURANCE

A. Supplier Qualifications: Neocrylic, 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 decorative concrete and masonry coating system shall meet 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/23°C. Handle products to avoid damage to container. Do not store for long periods in direct sunlight. Protect all materials from freezing.

1.6 PROJECT CONDITIONS

A. Proceed with application of materials only when substrate temperature is above 40°F/4°C. Substrate shall be dry, clean, and frost-free. Temperature shall be more than 5°F/3°C above dew point and rising. Do not apply if precipitation or freezing temperatures are imminent.

1.7 WARRANTY

A. Upon request, Neogard shall offer the manufacturer's standard warranty upon receipt of a properly executed warranty request form.

PART 2 MATERIALS

2.1 MANUFACTURER

A. Neogard, a part of Hempel, 2728 Empire Central, Dallas, TX 75253, 214-353-1600, www.neogard.com.

2.2 MATERIALS

A. Primers:
1. Previously Painted, EIFS, Chalky or Porous Concrete/Masonry Primer: 7031-100 (28010) water-based acrylic primer.
2. New Concrete, Masonry, and Wood Primer: 3090 (181JB) Multi-Grip II primer.
3. Ferrous Metal Primer: 33304/99953 (15090) Chem-O-Pon Primer or 3090 (181JB) Multi-Grip II primer.
4. Galvanized Metal Primer: 3090 (181JB) Multi-Grip II primer.

B. Patching Compound: 7032 (61AJB) series Neoflex patching compound.

C. Decorative Coating: 7151 (58025) series decorative acrylic coating.

D. Sealant: 70991 (47XJB) series polyurethane sealant or approved equal.

2.3 MATERIAL PERFORMANCE CRITERIA

A. Typical physical properties of cured 7151 acrylic used on this project are:
1. Algal Fungal Resistance, ASTM D3274, No Growth
2. Chalking, 3,000 hours, ASTM D4214, Passes
3. Flexibility, 1/2" Mandrel, ASTM D522, No Cracking
4. Water-vapor permeance, ASTM D1653, 20 perms
5. Accelerated Weathering, 3,000 hours, ASTM D4587, Passes
6. Visual Color Change, 3,000 hours, ASTM D1729, Passes
7. Salt Spray (fog) Resistance, 500 hours, ASTM B117, Passed
8. Dirt Pick-up % after 12 month exposure, ASTM D3719, Passed
9. Impact Resistance (30 in-lbs), ASTM D2794, Passed

B. 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.

2.4 ACCESSORIES

A. Miscellaneous materials shall be approved by the manufacturer of the decorative concrete and masonry coating. All materials used shall be applied in accordance with its manufacturer's recommendations.

2.5 MIXES

A. In multi-pail applications, mix contents of each new pail into partially used pail to ensure color consistency and a smooth transition from pail to pail.

PART 3 EXECUTION

3.1 EXAMINATION

A. Concrete: Verify that the work done under other sections meets the following requirements:
1. Concrete is free of ridges and sharp projections.
2. New concrete should be cured for a minimum of 28 days. Water-cured treatment of concrete is preferred. Resin or waxed based curing compound should not be used. Non-compatible curing agents must be removed prior to application.
3. All loose concrete, or mortar, is removed.

4. Damaged areas of concrete, including bug holes, voids and air pockets, should be repaired using a cement biased patching compound.

B. Masonry (Brick, Low Density Block, Cinder Block, Stucco): Verify that the work done under other sections meets the following requirements:
1. New masonry should be allowed to dry for a minimum of 28 days.
2. Mortar joints are sound and without voids.
3. Defective mortar or stucco areas should be repaired using a cement based patching compound.

C. Exterior Insulated and Finish Systems (EIFS):
1. Surface should be clean and free of grease and contaminants.
2. Caulk joints should be checked, primed and re-caulked with sealant.
3. Defective areas should be repaired following EIFS manufacturer's specified repair procedure.

3.2 PREPARATION

A. Protection:
1. The overspray from spraying decorative concrete and masonry coating materials can carry considerable distances and care should be taken to do the following.
2. Post warning signs a minimum of 100 feet from the work area.
3. Cover all intake vents near the work area.
4. Set up wind breaks when needed.
5. Minimize or exclude all personnel not directly involved with coating application.
6. Provide adequate ventilation.
7. Protect plants, vegetation and animals which might be affected by coatings. Use drop cloths or masking as required.

B. Surface Preparation:
1. Cleaning: Surfaces should be clean and free of oil or grease. All loose materials and foreign matter should be removed from the substrate. All mildew and algae must be removed from the substrate with a solution of one tablespoon of Tri-Sodium Phosphate and two pints of liquid bleach in one gallon of water (.125 to .25 liters per liter). Rinse thoroughly with clear water. Surfaces should be pressure-washed and allowed to thoroughly dry prior to application.
2. Crack and Cold Joints: Visible hairline cracks (up to 1/16" in width) in masonry should be pretreated with a detail application of 7032 patching compound. Large cracks and construction joints should be sealed with 70991 series sealant. Sealant shall be applied to inside area of crack only. Detail sealed cracks with a liberal application of 7032 patching compound. "Reemay" type spun polyester fabric may be incorporated into the details for added reinforcement.
3. Porous block surfaces should be filled smooth using an acceptable acrylic block filler at a rate of until smooth.
4. Control Joints: Seal secondary control joints with 70991 series sealant.

3.3 APPLICATION

A. Primer:
1. Chalky or porous concrete/masonry surfaces should be primed with 7031-100 water-based acrylic primer at a rate of 150-350 square feet per gallon.
2. Previously painted surfaces should be primed with 7031-100 water-based acrylic primer at a rate of 175-400 square feet per gallon.
3. EIFS should be primed with 7031-100 water-based acrylic primer at a rate of 150–300 square feet per gallon.
4. New concrete, masonry and wood surfaces should be primed with 3090 Multi-Grip II primer at a rate of 100–400 square feet per gallon.
5. Ferrous metal should be clean and rust free. Prime using 33304/99953 Chem-O-Pon or 3090 Multi-Grip II primer at a rate of 200-300 square feet per gallon.
6. Galvanized metal should be solvent-wiped and primed with 3090 Multi-Grip II primer at a rate of 400–500 square feet per gallon.

B. Decorative Concrete and Masonry Coating: Apply 7151 series at a minimum thickness of 3 dry mils in strict

accordance with application procedures outlined by Neogard. Coverage rate will be 200–300 square feet per gallon depending on texture and porosity of substrate.

C. Applicator is responsible for applying sufficient coating to the substrate.

3.4 CLEANING

A. Clean any splatters or spills with water before material dries. Once dried, Neocrylic may be difficult to remove and may require mechanical removal.

B. Remove temporary coverings and protection from adjacent work areas.

C. Clean up and properly dispose of debris remaining on project site related to application.

END OF SECTION

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