

SECTION 09 97 00 SPECIAL COATINGS– INTERIOR WALL

Parex Architectural Coatings and Finishes for Interior Swimming Pool Room & Other Humid Room Interior Wall and Ceilings

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. Installation of base coat, reinforcing mesh and finish installed for direct interior application to glass fiber reinforced gypsum tile backer (Dens Shield® by GP Gypsum or GoldBond e2XP Tile Backer by National Gypsum) approved by Parex USA.

1.2 RELATED SECTIONS

- A. Section 07 90 00 - Joint Protection
- B. Section 08 50 00 - Windows
- C. Section 09 28 16 – Glass-Mat Faced Gypsum Backer Boards

1.3 REFERENCES

- A. ASTM B117 - Test Method for Salt Spray (Fog) Testing.
- B. ASTM D2247 - Practice for Testing Water Resistance of Coatings in 100 Percent Relative Humidity.
- C. ASTM E84 - Test Method for Surface Burning Characteristics of Building Materials.
- D. ASTM E331 - Test Method for Water Penetration by Uniform Static Air Pressure Difference.
- E. ASTM E2485 - Standard Test Method for Freeze/Thaw Resistance of Exterior Insulation and Finish Systems (EIFS) and Water Resistive Barrier Coatings
- F. ASTM E2486 - Standard Test Method for Impact Resistance of Class PB and PI Exterior Insulation and Finish Systems (EIFS)
- G. ASTM G155 and G153 - Accelerated Weathering for Exposure of Nonmetallic Materials.

1.4 SYSTEM DESCRIPTION:

Architectural Coatings and Finishes for Interior Pool Rooms and other Humid Room Interior Wall and Ceilings.

- A.
 1. An interior coating system consisting of Base Coat with embedded Reinforcing Fabric Mesh, Primer, and Finish Coat.
- B. Architectural Coatings and Finishes for Interior Pool Rooms Functional Criteria:
 1. General:
 - a. Coatings are for high humidity atmosphere but not continuous wetting or constant washing.
 - b. Substrates for coating application shall have interior exposure only and shall be protected from standing water exposure..
 2. Performance Requirements
 - a. Shall meet the testing requirements of the Product Performance Sheet.
 3. Precaution: Sufficient continuous thermal insulation between the substrate board and exterior is required to maintain the interior surface at a temperature above the dew-point of the interior room air.
 4. Vapor barriers or retarders shall not be placed in back of the tile backer board.

1.5 SUBMITTALS

- A. Samples: Submit samples for approval. Samples shall be of materials specified and of suitable size as required to accurately represent each color and texture used on project. Prepare each sample using same tools and techniques for actual project application. Maintain and make available, at job site, approved samples.
- B. Manufacturer's Warranty: Submit sample copies of Manufacturer's Warranty indicating Single Source Responsibility.

1.6 QUALITY ASSURANCE

A. Qualifications:

1. Manufacturer: Shall have marketed Exterior Insulation and Finish Systems Coatings in United States for at least ten years.
 - a. Shall have completed projects of same building size and type as this project.
2. Applicator:
 - a. Shall have attended a Parex USA Educational Seminar for installation of coating system materials.
 - b. Shall possess a current certificate of education.
 - c. Shall be experienced and competent in installation of plaster-like materials.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Delivery: Deliver Architectural Coatings and Finishes for Interior Pool Rooms products in original packaging with manufacturer's identification.
- B. Storage: Store materials supplied by Parex USA in a cool, dry location, out of sunlight, protected from weather and other harmful environment, and at a temperature above 40 °F (4.4 °C) and below 110°F (43°C) in accordance with manufacturer's instructions.

1.8 PROJECT / SITE CONDITIONS

- A. Installation Ambient Air Temperature: Minimum of 40°F (4.4°C) and rising, and remain so for 24 hours thereafter.
- B. Substrate Temperature: Do not apply materials to substrates whose temperature are below 40°F (4.4°C) or contain frost or ice.
- C. Materials shall not be applied if ambient temperature exceeds 110°F (43.3°C) or falls below 40°F (4.4°C) within 24 hours of application. Protect from uneven and excessive evaporation during hot, dry weather.
- D. Prior to installation, the wall shall be inspected for surface contamination, or other defects that may adversely affect the performance of the materials and shall be free of residual moisture.

1.9 COORDINATION AND SCHEDULING:

- A. Coordination: Coordinate Architectural Coatings and Finishes for Interior Pool Rooms installation with other construction operations.

1.10 WARRANTY

- A. Warranty: Upon request, at completion of installation, provide Architectural Coatings and Finishes Limited Warranty. See warranty schedule for available Parex USA Warranties.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturer: Parex USA, Inc., 4125 E. LaPalma Ave., Suite 250, Anaheim, CA 92807
- B. Components: Obtain components of Parex Architectural Coatings and Finishes for Interior Pool Rooms from authorized distributors. No substitutions or additions of other materials are permitted without prior written permission from Parex USA for this project.

2.2 MATERIALS

A. Base Coats:

1. Parex USA WeatherDry: Waterproof Base coat mixed with portland cement in the field

B. Reinforcing Mesh

1. 355 Standard Mesh: Weight 4.5 oz. per sq. yd. (153 g/sq m); coated for protection against alkali. Standard reinforcement.

C. Parex Primers:

1. Parex USA Primer: 100% acrylic based coating to prepare surfaces for Parex finishes.
2. Parex USA Variance Sanded Primer: 100% acrylic based coating to prepare surface for Variance Cerastone and Spraystone finishes.

EDITOR NOTE: MODIFY BELOW TO SUIT REQUIREMENTS. CHOOSE ONE #1 FINISH TYPE

D. Parex Finish:

1. Parex DPR Optimum Finish: Factory blended, 100% acrylic polymer based finish, integrally colored.
 - a. Finish type, texture and color as selected by Architect

-OR-

1. Parex DPR Standard Finish: Factory blended, 100% acrylic polymer based finish, integrally colored.
 - a. Finish type, texture and color as selected by Architect.

-OR-

1. Parex USA Variance Cerastone or Spraystone: Attractive multi-color wall finish made of color aggregates.
 - a. Finish type, texture and color as selected by Architect.

E. Parex Matte Clear Sealer 610 clear acrylic water based sealer.

1. Required for application to Cerastone and Spraystone finish
2. Optional over Parex DPR Finish coat.

F. Water: Clean, potable water

G. Portland Cement: ASTM C150, Type I or Type I-II.

2.3 RELATED MATERIALS AND ACCESSORIES

A. Substrate Materials:

1. Dens-Shield manufactured by Georgia Pacific
2. GoldBond e2XP Tile Backer by National Gypsum

B. Fasteners: Shall be galvanized or rust resistant alloy or polymer coated for equivalent corrosion resistance.

C. Trim Accessories:

1. Control joints and casing beads shall be exterior grade rigid PVC.
2. Ceramic tile base or similar construction shall be provided at the base of the wall to protect sheathing board edges from exposure to moisture.

D. Sealant System: Sealant material shall be in compliance with sealant manufacturer's requirements for casing bead material, Parex USA coating, and adjoining materials.

EDITOR NOTE: PART 3 EXECUTION BELOW INVOLVES ONSITE WORK AND SHOULD INCLUDE PROVISIONS FOR INCORPORATING MATERIALS AND PRODUCTS INTO PROJECT. TYPICALLY, "CONDITIONS OF THE CONTRACT" ESTABLISH RESPONSIBILITY FOR "MEANS, METHODS, TECHNIQUES, AND SAFETY" REQUIREMENTS OF CONSTRUCTION WITH CONTRACTOR. SPECIFICATIONS SHOULD AVOID CONFLICTS WITH THIS CONTRACTUAL PRINCIPLE.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verify project site conditions under provisions of Section 01 00 00.
- B. Compliance: Comply with manufacturer's instructions for installation of Parex products.
- C. Substrate Examination: Examine prior to Parex Base Coat installation as follows:

1. Substrate shall be sound, undamaged, free of dust, dirt, laitance, efflorescence, and other harmful contaminants.
 2. Substrate construction in accordance with substrate material manufacturer's specifications and applicable building codes.
 3. Substrate shall have no planer irregularities greater than 1/4" (6.4 mm) or surface irregularities greater than 1/32" (0.8 mm) and shall be free of foreign substances, including, paint, primers, bond breakers, oils, laitance, scaling and flaking.
 4. Unsatisfactory conditions shall be corrected before the application of the coatings.
 5. Remove efflorescence using mechanical removal and/or a diluted acid solution followed by complete rinsing.
 6. Concrete surfaces shall be level and free of voids over 1/8" (3 mm) across. Glossy surfaces shall be dulled by chemical or mechanical means. Thoroughly remove all residues.
- D. Advise Contractor of discrepancies preventing installation of the Parex Architectural Coatings and Finishes. Do not proceed with the Parex Architectural Coatings and Finishes work until unsatisfactory conditions are corrected.

3.2 PREPARATION

- A. Protection: Protect surrounding material surfaces and areas during installation of system.
- B. Prepare surfaces using the methods recommended by the Manufacturer for achieving the best result for the substrate under the project conditions.

3.3 MIXING

- A. Mix Parex USA products in accordance with Manufacturer's instructions.

3.4 APPLICATION

- A. General: Installation shall conform to this specification and Parex written instructions and drawing details.
- B. Base coat
 1. Apply base coat and fully embed mesh in base coat; include diagonal mesh patches at corners of openings and reinforcing mesh patches at joints of vinyl accessory sections. Apply multiple layers of base coat and mesh where required for specified impact resistance classification.
- C. Apply primer to base coat after drying.
- D. Finish Coat: Apply finish coat to match specified finish type, texture, and color. Do not apply finish coat to surfaces to receive sealant. Keep finish out of sealant joint gaps.
- E. Matte Clear Sealer: Apply Parex USA Clear Sealer 610 if specified when finish has dried.

3.5 CLEAN-UP

- A. Removal: Remove and legally dispose of Parex USA product debris material from job site.
- B. Clean EIFS surfaces and work area of foreign materials resulting from coating application operations.

3.6 PROTECTION

- A. Provide protection of installed materials from water infiltration into or behind them.
- B. Provide protection of installed coatings from dust, dirt, precipitation, and freezing during installation.
- C. Provide protection of installed finish from dust, dirt, precipitation, freezing, and continuous high humidity until fully cured and dry.
- D. Clean exposed surfaces using materials and methods recommended by the manufacturer of the material or product being cleaned. Remove and replace work that cannot be cleaned to the satisfaction of the Architect/Owner.

END OF SECTION

Disclaimer This guide specification is intended for use by a qualified designer. The guide specification is not intended to be used verbatim as an actual specification without appropriate modifications for the specific use intended. The guide specification must be integrated into and coordinated with the procedures of each design firm, and the requirements of a specific project.

PRODUCT PERFORMANCE SHEET

Test	Method	Results
Surface Burning Characteristics	ASTM E84	Flame Spread: 0 to 15 Smoke Developed: 0 to 15
Gardner Impact Test	ASTM D2794	25 to 200 in-lbs
Abrasion Resistance	ASTM D968	500 liters: no deleterious effect
Accelerated Weathering	ASTM G153	2000 hours; no deleterious effect
	ASTM G154	2000 hours: no deleterious effect
Freeze-Thaw Resistance	ASTM E2485	60 cycles: no deterioration 10 cycles: pass
Fungus Resistance	MIL STD 810B	28 days: no growth
Mildew Resistance	ASTM D3273	35 days: no growth
Moisture Resistance	ASTM D2247	14 days: no deleterious effect
Salt Fog Resistance	ASTM B117	500 hours: no deterioration
Water Penetration	ASTM E331	Pass

*No deleterious effects: no cracking, checking, crazing, erosion, rusting, blistering.

REINFORCING MESH IMPACT RESISTANCE

Mesh Type	Classification	Impact Resistance Range (in-lbs)
355 Standard Mesh	Standard	25-49
358.10 Intermediate Impact 10 Mesh	Intermediate	50-89
358.14 High Impact 15 Mesh (Plus Standard Mesh)	High	90-150
358.20 Ultra High Impact 20 Mesh/Standard Mesh	Ultra High	>150

Where several tests on different materials are summarized, a range of values are shown. This summary has been prepared to provide quick but partial information on how certain combinations of Parex products perform during certain tests. It is not a complete description of the test procedures or of the results thereof. Parex USA will mail copies of original test reports at no charge on request. Please contact Parex USA if further information is required.