

Dryvit Architectural Finishes For Indoor Pool Areas



DS561

100% Acrylic Architectural Finishes For Indoor Pool Areas

Dryvit Architectural Finishes For Indoor Pool Areas Specifications

DRYVIT SYSTEMS, INC.
MANUFACTURER'S SPECIFICATION
CSI MASTERFORMAT SECTION 09 96 00
DRYVIT ARCHITECTURAL FINISHES FOR INDOOR POOL AREAS

PART I - GENERAL**1.01 SUMMARY:**

- A. This document contains all the Manufacturer's requirements for the proper design, use, and installation of the Dryvit Architectural Finishes For Indoor Pool (high humidity) Areas. The Dryvit finishes shall not be used in areas of direct water contact.
- B. SECTION INCLUDES
 - 1. Interior Architectural Finishes for indoor pool areas, locker rooms and other high humidity areas.
- C. RELATED SECTIONS
 - 1. Unit Masonry – Section 04 20 00
 - 2. Concrete – Sections 03 00 00
 - 3. Vapor Retarders – Section 07 26 00
 - 4. Gypsum Board – Section 09 29 00

1.02 REFERENCES

- A. ASTM C 150 Specification for Portland Cement
- B. ASTM C 297 Test Method for Tensile Strength of Flat Sandwich Constructions in Flatwise Plane
- C. ASTM D 522 Test Methods for Mandrel Bend Test of Attached Organic Finishes
- D. ASTM D 968 (Federal Test Standard 141A Method 6191) Test Method for Abrasion Resistance of Organic Finishes by Falling Abrasive
- E. ASTM D 3273: Test Method for Resistance to Growth of Mold on Surfaces
- F. ASTM D 4060 Standard Test Method for Abrasion Resistance of Organic Finishes by the Taber Abraser
- G. ASTM E 84 Test Method for Surface Burning Characteristics of Building Materials
- H. ASTM E 96 Test Methods for Water Vapor Transmission of Materials
- I. DS159 Dryvit Water Vapor Transmission Data Sheet

1.03 DEFINITIONS

- A. Contractor: The contractor that applies materials to the substrate.
- B. Dryvit: Dryvit Systems, Inc., the manufacturer of the coating materials, a Rhode Island corporation.
- C. Lamina: The layer consisting of the reinforced base coat and finish materials.
- D. Finish: An acrylic based coating, available in a variety of textures and colors, which is applied to the prepared wall surface.
- E. Reinforced Base Coat: The layer consisting of fiberglass reinforcing mesh fully embedded in the base coat material applied to the outside surface of the sheathing.
- F. Reinforcing Mesh: Glass fiber mesh used to reinforce the base coat and to provide impact resistance.
- G. Substrate: The material to which the Dryvit finishes are applied.

1.04 DESCRIPTION

- A. General: Dryvit Architectural Finishes for Indoor Pool Areas consist of base coat and reinforcing mesh, acrylic primer and finish, applied to interior wall and ceiling surfaces.
- B. Design Requirements
 - 1. Approved substrates for Dryvit architectural finishes shall be:
 - a) CertainTeed GlasRoc® Diamondback® Tile Backer
 - b) Georgia Pacific DensShield® Tile Backer
 - c) National Gypsum e²XP™ Tile Backer
 - d) CMU or Concrete
 - e) Fiber reinforced cement board meeting ASTM C 1325
 - 2. Vapor Retarders: Use, type and location of vapor retarders within a wall assembly is the responsibility of the project designer and shall be noted on the project drawings and specifications.
- C. Performance Requirements: As a minimum the Dryvit materials shall be tested in the following areas;
 - 1. Mildew Resistance: ASTM D 3273 – 28 days
 - 2. Abrasion Resistance: ASTM D 968 – 500 liters
 - 3. Flame Spread: ASTM E 84 – Flame Spread less than 25, Smoke Developed less than 250
 - 4. Flexibility ASTM D 522 Method B: Passed 1.5 diameter @73 °F
 - 5. Taber Abrasion ASTM D 4060: 1000 cycles; 83 mg mass loss

1.05 SUBMITTALS

- A. Product Data – The Contractor shall submit to the owner/architect manufacturer's product data sheets describing products which will be used on this project.
- B. Samples – The Contractor shall submit to the owner/architect two samples of each finish, texture, and color to be used on the project. The same tools and techniques proposed for the actual installation shall be used to prepare the samples. Samples shall be of sufficient size to accurately represent each color and texture to be utilized on the project.

1.06 QUALITY ASSURANCE

- A. Qualifications
 - 1. Manufacturer: Shall be Dryvit Systems, Inc. All materials shall be manufactured or sold by Dryvit and shall be purchased from Dryvit or its authorized distributor.
 - a. Materials shall be manufactured at a facility covered by a current ISO 9001:2008 and ISO 14001:2004 certification. Certification of the facility shall be done by a registrar accredited by the American National Standards Institute, Registrar Accreditation Board (ANSI-RAB).
 - 2. Contractor: Shall be knowledgeable in the proper application of the Dryvit materials and shall be experienced and competent in the installation of the Dryvit Architectural Finishes.

1.07 DELIVERY, STORAGE, AND HANDLING

- A. All Dryvit materials shall be delivered to the job site in the original, unopened packages with labels intact.
- B. Upon arrival, materials shall be inspected for physical damage, freezing or overheating. Questionable materials shall not be used.
 - 1. Materials shall be stored at the job site, and at all times, in a cool, dry location, out of direct sunlight, protected from weather and other sources of damage. Minimum storage temperature shall be as follows:
 - a. DPR, PMR™, HDP™, Weatherlastic® and E™ Finishes, Color Prime™, Primus®, Genesis® and NCB™, 40 °F (4 °C).
 - b. For other products, refer to specific product data sheets.
 - 2. Maximum storage temperature shall not exceed 100 °F (38 °C). **NOTE: Minimize exposure of materials to temperatures over 90 °F (32 °C). Finishes exposed to temperatures over 110 °F (43 °C) for even short periods may exhibit skinning, increased viscosity and should be inspected prior to use.**
- C. Protect all products from inclement weather and direct sunlight.

1.08 PROJECT CONDITIONS

- A. Environmental Requirements
 - 1. At the time of Dryvit product application, the air and wall surface temperatures shall be from 40 °F (4 °C) minimum to 100 °F (38 °C) maximum for the following products:
 - a. DPR, PMR, HDP, Weatherlastic and E Finishes, Color Prime, Primus, Genesis and NCB.
 - b. For other products, refer to specific product data sheets.
 - 2. These temperatures shall be maintained with adequate air ventilation and circulation for a minimum of 24 hours (48 hours for Weatherlastic Finishes, Ameristone, TerraNeo and Limestone) thereafter, or until the products are completely dry. Refer to published product data sheets for more specific information.

1.09 SEQUENCING AND SCHEDULING

- A. Installation of the Dryvit Architectural Finishes shall be coordinated with other construction trades.
- B. Sufficient manpower and equipment shall be employed to ensure a continuous operation, free of cold joints, scaffold lines, texture variations, etc.

1.10 LIMITED MATERIALS WARRANTY

- A. Dryvit Systems, Inc. shall provide a written limited materials warranty against defective materials, upon written request. Dryvit shall make no other warranties, expressed or implied. Dryvit does not warrant workmanship. Full details are available from Dryvit Systems, Inc.
- B. The applicator shall warrant workmanship separately. Dryvit shall not be responsible for workmanship associated with installation of the Dryvit Architectural Finishes.

1.11 DESIGN RESPONSIBILITY

- A. It is the responsibility of both the specifier and the purchaser to determine if a product is suitable for their intended use. The designer selected by the purchaser shall be responsible for all decisions pertaining to design, detail, structural capability, attachment, details, shop drawings, and the like. Dryvit has prepared guidelines in the form of specifications and product data sheets to facilitate the design process only. Dryvit is not liable for any errors or omissions in design, detail, structural capability, attachment details, shop drawings, or the like, whether based upon the information prepared by Dryvit or otherwise, or for any changes which purchases, specifiers, designers, or their appointed representatives may make to Dryvit's published comments.

1.12 MAINTENANCE

- A. Maintenance and repair shall follow the procedures noted in Dryvit publication, DS498.
- B. All Dryvit products are designed to minimize maintenance. However, as with all building products, depending on location, some cleaning may be required. See Dryvit publication DS152 on Cleaning and Recoating.

PART II - PRODUCT**2.01 MANUFACTURER**

- A. All components of the Dryvit Architectural Finishes for Indoor Pool Areas shall be obtained from Dryvit or its authorized distributors.

2.02 MATERIALS

- A. Portland Cement: Shall be Type I, I-II or II, meeting ASTM C150, white or gray in color, fresh and free of lumps.
- B. Water: Shall be clean and free of foreign matter.

2.03 COMPONENTS

- A. Base Coat:
 - 1. Cementitious: A liquid polymer-based material, which is field mixed in a 1:1 ratio by weight with Portland Cement.
 - a. Shall be Genesis®.
 - 2. Ready mixed: A dry blend cementitious, co-polymer based product, field mixed with water.
 - a. Shall be Genesis DM™.
- B. Reinforcing Mesh: Shall be a balanced open weave, glass fiber fabric treated for compatibility with other System materials.
 - 1. Shall be Dryvit Standard™ mesh weighing 4.3 oz/yd² (146 g/m²) (Optional over concrete or CMU).
 - a. It shall be colored blue for product identification bearing the Dryvit logo.
- C. Primer
 - 1. Shall be: Color Prime™ a pigmented, acrylic based primer used to improve adhesion and uniformity of finish color.
- D. Finishes: Shall be the type, color, and texture as selected by the owner/architect and shall be one or more of the following:
 - 1. Standard DPR (Dirt Pickup Resistance): Water based, acrylic finishes with integral color and texture, and formulated with DPR (Dirt Pickup Resistance) chemistry:
 - a. Quarzputz®: Coarse texture.
 - b. Sandblast®: Medium texture.
 - c. Freestyle®: Fine texture.
 - d. Sandpebble®: Rough pebble texture.
 - e. Sandpebble Fine™: Fine pebble texture.
 - f. Sandblast® NTX (available only from Dryvit's California plant).
 - g. Sandpebble® Fine NTX (available only from Dryvit's California and Oklahoma plants).
 - 2. E Finishes: Water-based, lightweight acrylic finishes with integral color and texture, and formulated with DPR chemistry:
 - a. Quarzputz® E: Coarse texture.
 - b. Sandpebble® E: Pebble stucco texture.
 - c. Sandpebble Fine™ E: Fine pebble texture.
 - 3. Medallion Series PMR™ (Proven Mildew Resistance): Water based acrylic finishes with integral color and texture, and formulated with PMR (Proven Mildew Resistance) chemistry:
 - a. Quarzputz PMR: Coarse texture.
 - b. Sandblast PMR: Medium texture.
 - c. Freestyle PMR: Fine texture.
 - d. Sandpebble PMR: Rough pebble texture.
 - e. Sandpebble Fine PMR: Fine pebble texture.
 - 4. Specialty Finishes: Factory mixed, water based acrylic:
 - a. Ameristone™: Multi colored quartz aggregate with a flamed granite appearance.
 - b. Stone Mist®: Ceramically colored quartz aggregate.
 - c. Custom Brick™: A template system resulting in a brick, stone or tile appearance.
 - d. TerraNeo™: 100% acrylic-based finish with large mica chips and multi-colored quartz aggregates.
 - e. Limestone™. Premixed 100% acrylic-based finish designed to replicate the appearance of limestone blocks.
 - f. Reflectit™: 100% acrylic coating providing a pearlescent appearance.
 - g. Finesse™: A Smooth 100% acrylic-based dirt pickup resistance finish.

PART III – EXECUTION**3.01 EXAMINATION**

- A. Prior to installation of the Dryvit Architectural Finishes For Indoor Pool Areas, the Contractor shall ensure that the substrate is as listed in section 1.04.B.1.
- B. The Contractor shall notify the General Contractor and/or Architect and/or Owner of all discrepancies. Work shall not proceed until discrepancies have been corrected.

3.02 SURFACE PREPARATION

- A. The substrate shall be prepared so as to be free of foreign materials such as oil, dust, dirt, form-release agents, efflorescence, loose paint, wax, water repellents, moisture, frost and any other materials that inhibit adhesion.
- B. Concrete and masonry
 - 1. Shall be dry and cured a minimum of 28 days.
- C. CertainTeed GlasRoc® Diamondback®, Georgia Pacific DensShield, and National Gypsum e²XP Tile Backer
 - 1. Surface shall be cleaned to remove all dust, dirt, or other contaminants that may impair the adhesion of a surface coating.

3.03 INSTALLATION

- A. The Dryvit materials shall be mixed and applied in accordance with Dryvit's published product data sheets for the individual products specified.
- B. Application
 - 1. Apply a layer of base coat mixture to the wall surface at an approximate thickness of 1/16 in (1.6 mm). Immediately place the reinforcing mesh into the wet base coat layer and trowel smooth so the mesh is fully embedded. Lap adjacent pieces of mesh a minimum of 2 1/2 in (64 mm). Continue until the entire wall surface is covered. **NOTE: Reinforcing mesh is optional when installed over concrete or CMU.**
 - 2. Allow to cure a minimum of 24 hours until completely dry. Cool, humid conditions may require longer cure times.
 - 3. Using a brush, roller, or airless spray equipment, apply a coat of Color Prime over the prepared wall surface and allow to dry.
 - 4. Apply the specified finish in accordance with Dryvit's published installation instructions.

3.04 FIELD QUALITY CONTROL

- A. The Contractor shall be responsible for the proper application of the Dryvit materials.
- B. Dryvit assumes no responsibility for on-site inspections or application of its products.

3.05 CLEANING

- A. All excess Dryvit materials shall be removed from the job site by the Contractor in accordance with contract provisions.
- B. All surrounding areas, where Dryvit finishes have been installed, shall be left free of debris and foreign substances resulting from the Contractor's work.

3.06 PROTECTION

- A. Dryvit finishes and the project shall be protected from damage and exposure to dust and other contaminants until dry.

DISCLAIMER

Information contained in this specification conforms to standard detail and product recommendations for the installation of the Dryvit Architectural Finishes For Indoor Pool Areas products as of the date of publication of this document and is presented in good faith. Dryvit Systems, Inc. assumes no liability, expressed or implied, as to the architecture, engineering or workmanship of any project. To ensure that you are using the latest, most complete information, contact:

Dryvit Systems, Inc.
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West Warwick, RI 02893

The Trained Contractor Certificate indicates certain employees of the company have been instructed in the proper application of Dryvit products and have received copies of Dryvit's Application Instructions and Specifications. The Trained Contractor Program is not an apprenticeship. Each trained contractor is an independent company experienced in the trade and bears responsibility for its own workmanship. Dryvit System's, Inc. assumes no liability for the workmanship of a trained contractor.

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