

Dryvit Interior Architectural Coatings



DS174

100% Acrylic Architectural Coatings For Interior Use

Dryvit Interior Architectural Coatings Specifications

**DRYVIT SYSTEMS, INC.
MANUFACTURER SPECIFICATION
SECTION 09960
DRYVIT INTERIOR ARCHITECTURAL COATINGS**

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 Interior Architectural Coatings.
- B. SECTION INCLUDES
 - 1. Interior Architectural Coatings
- C. RELATED SECTIONS
 - 1. Unit Masonry – Section _____
 - 2. _____ – Section _____
 - 3. Vapor Barriers – Section _____
 - 4. Gypsum Board Systems – Section _____

1.02 REFERENCES

- A. ASTM B117 (Federal Test Standard 141A Method 6061) Test Method of Salt Spray (Fog) Testing.
- B. ASTM C150 Specification for Portland Cement.
- C. ASTM C297 Test Method for Tensile Strength of Flat Sandwich Constructions in Flatwise Plane.
- D. ASTM D968 (Federal Test Standard 141A Method 6191) Test Method for Abrasion Resistance of Organic Coatings by Falling Abrasive.
- E. ASTM D3273: Test Method for Resistance to Growth of Mold on Surfaces.
- F. ASTM E84 Test Method for Surface Burning Characteristics of Building Materials.
- G. ASTM E96 Test Methods for Water Vapor Transmission of Materials.
- H. ASTM G23 (Federal Test Standard 141A Method 6151) Recommended Practice for Operating Exposure Apparatus (Carbon-Arc Type) With and Without Water, for Exposure of Nonmetallic Materials.
- J. 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 coatings are applied.

1.04 DESCRIPTION

- A. General: Dryvit Interior Architectural Coatings consist of base coat and reinforcing mesh (where specified), acrylic primer and finish, applied to various interior wall and ceiling surfaces.
- B. Design Requirements
 - 1. Acceptable surfaces for Dryvit Interior Architectural Coatings include:
 - a. Concrete and Masonry
 - b. Drywall
 - c. Dens-Glass® Gold by Georgia-Pacific® Corp.
 - d. Dens Shield by Georgia-Pacific® Corp.
 - e. Eterspan® by Eternit
 - f. Harditex® or Hardiflex® by James Hardie Building Products
 - g. Durock® by U. S. Gypsum Co.
 - h. Cement based sheathing boards.
 - 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/Fungus Resistance: MIL STD 810B - Passed
- 2. Salt Spray Resistance: ASTM B117 - Passed
- 3. Salt Spray Resistance: ASTM B117 – 300 hrs.
- 4. Abrasion Resistance: ASTM D964
- 5. Absorption, Freeze/Thaw: ASTM C67 – 60 Cycles
- 6. Water Penetration: ASTM E331 – Passed
- 7. Flame Spread: ASTM E84 – Flame Spread less than 25, Smoke Developed less than 250.

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 9001:2000 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 installation of the Dryvit

materials and shall be experienced and competent in the installation of the Dryvit Finish System for Interiors. Additionally the contractor shall possess a current trained contractor certificate from Dryvit for any of its Exterior Insulation and Finish Systems.

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.
- C. Materials shall be stored at the job site in a cool, dry location, out of direct sunlight, protected from weather and other damage. Minimum storage temperature shall be 7 °C (45 °F) for Color Prime™, 10 °C (50 °F) for Ameristone, and 4 °C (40 °F) for all other products.

1.08 PROJECT CONDITIONS

- A. Environmental Requirements
 - 1. At the time of application, the air and wall surface temperatures shall be minimum 7 °C (45 °F) for Color Prime, 10 °C (50 °F) for Ameristone, and 4 °C (40 °F) for all other products. These temperatures shall be maintained, with adequate air circulation, for a minimum of 24 hours thereafter, or until the products are dry.
- B. Existing Conditions – The Contractor shall have access to electric power, clean water, and a clean work area at the location where the Dryvit materials are to be applied.

1.09 SEQUENCING AND SCHEDULING

- A. Installation of the Dryvit Interior Architectural Coatings 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, standard three (3) year limited warranty against defective materials, upon written request. Dryvit shall have no liability for the application of the materials. Dryvit shall make no other warranties, expressed or implied. Dryvit is not liable for incidental or consequential damages.

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 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 Outsulation System Application Instructions, DS204.
- 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 Interior Architectural Coatings 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® or Primus®.
 - 2. Non-cementitious: A factory mixed, fully formulated, water based product.
 - a. Shall be NCB™.
 - 3. Ready mixed: A dry blend cementitious, co-polymer based product, field mixed with water.
 - a. Shall be Primus DM™ or 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 146 g/m² (4.3 oz/yd²).
- C. Primer (when specified)
 - 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 coatings 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.
 - 2. **E** Finishes: Water-based, lightweight acrylic coatings 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 coatings 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.

- 2. All rough surfaces shall be skimmed with Dryvit Genesis® or Genesis DM mixture to provide a smooth, flat and level base.
- C. Drywall – Standard System.
 - 1. All joints shall be taped and skimmed, fastener heads spotted with joint compound, and sanded smooth.
- D. Drywall – High Impact
 - 1. Surface shall be cleaned to remove all dust, dirt, or other contaminants that may impair the adhesion of a surface coating.
- E. Plaster
 - 1. Plaster shall be finished smooth and allowed to cure a minimum of 28 days prior to application of finish.
 - 2. Surface shall be cleaned to remove all dust, dirt, or other contaminants that may impair the adhesion of a surface coating.
- F. Dens Glass® Gold, Dens-Shield®, Eterspan®, Harditex®, Hardiflex®, Durock® or other cement based sheathing boards.
 - 1. Surface shall be cleaned to remove all dust, dirt, or other contaminants that may impair the adhesion of a surface coating.

- C. Drywall – Standard
 - 1. Using a brush, roller, or airless spray equipment, apply a coat of Color Prime over the prepared drywall and allow to dry.
 - 2. Apply the specified finish in accordance with Dryvit's printed installation instructions.
- D. Drywall – High Impact
 - 1. Apply a layer of base coat Mixture to the wall surface at an approximate thickness of 1.6 mm (1/16 in). 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 64 mm (2 ½ in). Continue until the entire wall surface is covered.
 - 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 drywall and allow to dry.
 - 4. Apply the specified finish in accordance with Dryvit's printed installation instructions.
- E. Plaster
 - 1. Using a brush, roller, or airless spray equipment, apply a coat of Color Prime over the cured plaster and allow to dry.
 - 2. Apply the specified finish in accordance with Dryvit's printed installation instructions.
- F. Dens Glass® Gold, Dens-Shield®, Eterspan®, Harditex®, Hardiflex®, Durock® or other cement based sheathing boards.
 - 1. Apply a layer of base coat mixture to the wall surface at an approximate thickness of 1.6 mm (1/16 in). 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 64 mm (2 ½ in). Continue until the entire wall surface is covered.

PART III - EXECUTION

3.01 EXAMINATION

- A. Prior to installation of the Dryvit Interior Architectural Coatings, the Contractor shall ensure that the substrate is of a type 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.

3.03 INSTALLATION

- A. The Dryvit materials shall be mixed and applied in accordance with Dryvit's published Outsulation System Installation Instructions, DS204.
- B. Concrete and masonry
 - 1. Apply a continuous layer of Genesis or Genesis DM Mixture over the entire wall surface to fill voids and provide a smooth level base for finish application.
 - 2. Allow the Genesis or Genesis DM Mixture 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 dry Genesis, and allow to dry.
 - 4. Apply the specified finish in accordance with Dryvit's printed installation instructions.

- E. Plaster
 - 1. Using a brush, roller, or airless spray equipment, apply a coat of Color Prime over the cured plaster and allow to dry.
 - 2. Apply the specified finish in accordance with Dryvit's printed installation instructions.
- F. Dens Glass® Gold, Dens-Shield®, Eterspan®, Harditex®, Hardiflex®, Durock® or other cement based sheathing boards.
 - 1. Apply a layer of base coat mixture to the wall surface at an approximate thickness of 1.6 mm (1/16 in). 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 64 mm (2 ½ in). Continue until the entire wall surface is covered.

- 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 printed installation instructions.
- G. Pool areas, locker rooms and other high humidity areas.
- 1. A substrate appropriate for the exposure conditions must be specified.
 - 2. The Dryvit coatings shall not be used in areas of direct water contact.

- 3. The Dryvit coatings should not be considered to act as the vapor retarder for the wall, should one be required. If required, the vapor retarder shall be specified and installed separately.
- 4. The Dryvit coatings shall be installed as per the applicable substrate described above.

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 coatings have been installed, shall be left free of debris and foreign substances resulting from the Contractor's work.

3.06 PROTECTION

- A. Dryvit coatings, 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 Interior Architectural Coatings 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:

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*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.

