

# Dryvit Textured Acrylic Finishes (TAFS® Option 2) For Exterior Soffits



DS173

100% Acrylic Architectural Coatings For Use on Exterior Soffits

## Dryvit Textured Acrylic Finishes (TAFS Option 2) For Exterior Soffits Specifications

**DRYVIT SYSTEMS, INC.**  
**MANUFACTURER SPECIFICATION**  
**CSI MASTERFORMAT SECTION 09 96 00**  
**DRYVIT TEXTURED ACRYLIC FINISHES (TAFS Option 2) FOR EXTERIOR SOFFITS**

**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 Textured Acrylic Finishes (TAFS Option 2) for Exterior Soffits. For additional product information refer to:

1. Dryvit Textured Acrylic Finishes (TAFS Option 2) for Exterior Soffits Installation Details DS 842.

**B. SECTION INCLUDES**

1. Textured Acrylic Finishes for Exterior Soffits.

**C. RELATED SECTIONS**

1. Unit Masonry – Section 04 20 00
2. Concrete – Sections 03 00 00
3. Sheathing – Section 06 16 00
4. Vapor Retarders – Section 07 26 00
5. Joint Protection – Section 07 90 00

**1.02 REFERENCES**

- A. ASTM B 117 (Federal Test Standard 141A Method 6061) Test Method of Salt Spray (Fog) Testing.
- B. ASTM C 67 Test Method for Sampling and Testing Brick and Structural Tile.
- C. ASTM C 150 Specification for Portland Cement.
- D. ASTM C 297 Test Method for Tensile Strength of Flat Sandwich Constructions in Flatwise Plane.
- E. ASTM C 1177 Standard Specification for Glass Mat Gypsum Substrate for Use as Sheathing
- F. ASTM C 1396 (formerly C 79) Standard Specification for Gypsum Board
- G. ASTM D 968 (Federal Test Standard 141A Method 6191) Test Method for Abrasion Resistance of Organic Coatings by Falling Abrasive.
- H. ASTM D 3273 Test Method for Resistance to Growth of Mold on Surfaces.
- I. ASTM E 84 Test Method for Surface Burning Characteristics of Building Materials.
- J. ASTM E 96 Test Methods for Water Vapor Transmission of Materials.
- K. ASTM E 331 Test Method for Water Penetration of Exterior Windows, Skylights, Doors and Curtain Walls by Uniform Static Air Pressure Difference.
- L. ASTM G 23 (Federal Test Standard 141A Method 6151) Recommended Practice for Operating Exposure Apparatus (Carbon-Arc Type) With and Without Water, for Exposure of Nonmetallic Materials.
- M. DS152 Dryvit Cleaning and Recoating.
- N. DS153 Dryvit Expansion Joints and Sealants.
- O. DS159 Dryvit Water Vapor Transmission Data Sheet.

**1.03 DEFINITIONS**

- A. 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.
- B. Contractor: The Contractor that applies materials to the substrate.
- C. Dryvit: Dryvit Systems, Inc., the manufacturer of the coating materials, a Rhode Island corporation.
- D. Lamina: The layer consisting of the reinforced base coat and finish materials.
- E. Finish: An acrylic based coating, available in a variety of textures and colors, which is applied to the outside surface of the base coat.
- F. Reinforcing Mesh: Glass fiber mesh used to reinforce the base coat and to provide impact resistance.
- G. Sheathing: A substrate in sheet form.
- H. Soffit: Exterior ceiling areas.
- I. Substrate: The material to which the Dryvit coatings are applied.

#### 1.04 SYSTEM DESCRIPTION

A. General: The Dryvit Textured Acrylic Finishes (TAFS Option 2) for Exterior Soffits consists of base coat, reinforcing mesh, acrylic primer (when specified), and finish.

B. Design Requirements

1. Acceptable substrates shall be approved for use in exterior soffit applications and shall be one of the following:
  - a. Exterior grade gypsum sheathing meeting ASTM C 1396 (formerly C 79) requirements for water-resistant core or Type X core at the time of application.
  - b. Exterior sheathing having a water-resistant core with fiberglass mat facers meeting ASTM C 1177.
  - c. Exterior fiber reinforced cement or calcium silicate boards.
  - d. Concrete.
2. This application is acceptable for soffits only. Application of the Dryvit lamina directly to these substrates is not intended for exterior vertical walls.
3. Deflection of substrate systems shall not exceed L/240.
4. Vapor Retarders: Use 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.
5. Venting: Unheated soffit areas may require venting and needs to be detailed by the project design professional.
6. Expansion Joints: Expansion Joints shall be located by the project design professional at locations where substrate movement is expected but shall not exceed 20 ft (6.1 m) in any direction.

C. Performance Requirements: As a minimum, the Dryvit materials shall be tested as follows:

1. Mildew/Fungus Resistance: ASTM D 3273 - Passed
2. Salt Spray Resistance: ASTM B 117 - Passed
3. Accelerated Weathering: ASTM G 23 – 2000 hrs. - Passed
4. Salt Spray Resistance: ASTM B 117 – 300 hrs. - Passed
5. Abrasion Resistance: ASTM D 968 – Passed
6. Absorption, Freeze/Thaw: ASTM C 67 – 60 Cycles - Passed
7. Water Penetration: ASTM E 331 – Passed
8. Wind Driven Rain: FED SPEC TT-C-555B: Passed
9. Flame Spread: ASTM E 84 – 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. System 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 installation of the Dryvit materials and shall be experienced and competent in the installation of the Dryvit Textured Acrylic Finishes (TAFS Option 2) for Exterior Soffits. 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.
  - 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 38 °C (100 °F). **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. Application of wet materials shall not take place during inclement weather unless appropriate protection is provided. Protect materials from inclement weather until they are completely dry.
  - 2. 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.
  - 3. 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.
- 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 Textured Acrylic Finishes (TAFS Option 2) for Exterior Soffits 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 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 purchasers, 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 require minimal maintenance. However, as with all building products, depending on location, some cleaning may be required. See Dryvit publication DS152 on Cleaning and Recoating.
- C. Sealants and flashings should be inspected on a regular basis, and repairs made as necessary.

**PART II PRODUCT****2.01 MANUFACTURER**

- A. All components of the Dryvit Textured Acrylic Finishes (TAFS Option 2) for Exterior Soffits 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 C 150, 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: Shall be compatible with the sheathing and reinforcing mesh(es).
  - 1. Cementitious: A liquid polymer based material, which is field mixed 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™, Genesis DM™, Rapidry DM 50-75, or Rapidry DM 35-50.
- 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/yd<sup>2</sup> (146 g/m<sup>2</sup>).
    - a. It shall be colored blue for product identification bearing the Dryvit logo.
- C. 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®, Sandblast NTX: Medium texture.
    - c. Freestyle®, Freestyle Smooth, Freestyle Fine: Fine texture.
    - d. Sandpebble®, Sandpebble® NT™: Coarse pebble texture.
    - e. Sandpebble® Fine™, Sandpebble Fine NT: Fine pebble texture.
    - f. Sandpebble Course™: Very heavy pebble texture.
    - g. Sandblast® NTX (available only from Dryvit's California plant)
    - h. Sandpebble® Fine NTX (available only from Dryvit's California and Oklahoma plants)
  - 2. Elastomeric DPR (Dirt Pickup Resistance): Water based elastomeric acrylic coatings with integral color and texture, and formulated with DPR chemistry:
    - a. Weatherlastic® Quarzputz: Coarse texture.
    - b. Weatherlastic® Sandpebble: Rough pebble texture.
    - c. Weatherlastic® Sandpebble Fine: Fine pebble texture.
    - d. Weatherlastic® Adobe: Fine texture.
  - 3. **E** Finishes™: Water-based, lightweight acrylic coatings with integral color and texture and formulated with DPR chemistry:
    - a. Quarzputz® **E**
    - b. Sandpebble® **E**
    - c. Sandpebble® Fine **E**

4. 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, Sandpebble NT PMR: Rough pebble texture.
  - e. Sandpebble Fine PMR, Sandpebble Fine NT PMR : Fine pebble texture.
5. 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. TerraNeo®: Large mica chips and multi-colored quartz aggregate.
  - d. Custom Brick™: A template system resulting in a brick, stone or tile appearance.
  - e. Limestone™: Simulates appearance of limestone.
  - f. Finesse™: A smooth 100% acrylic-based dirt pickup resistance finish.
6. Primers (when specified):
  - a. Color Prime™: Pigmented acrylic based primer used to improve adhesion and uniformity of finish color.
  - b. Primer with Sand: Pigmented acrylic based primer with a slight sand texture to improve adhesion and uniformity of finish color and application of trowel applied finishes.

## **PART III EXECUTION**

### **3.01 EXAMINATION**

- A. Prior to installation of the Dryvit Textured Acrylic Finishes (TAFS Option 2) for Exterior Soffits, the Contractor shall ensure that the substrate:
  1. Is of a type listed in section 1.04.B.1.
  2. Is flat within 1/4 in (6.4 mm) in a 4 ft (1.2 m) radius.
  3. Is sound, dry, connections are tight, has no surface voids, projections, or other conditions that may interfere with the installation.
- B. Prior to the installation of the Dryvit Textured Acrylic Finishes (TAFS Option 2) for Exterior Soffits, the Architect or General Contractor shall insure that all needed flashings and other waterproofing details have been completed, if such completion is required prior to the application.
- C. 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 as to be free of foreign materials such as oil, dust, dirt, form-release agents, efflorescence, paint, wax, water repellents, moisture, frost and any other materials that inhibit adhesion.

### **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. The overall minimum base coat thickness shall be sufficient to fully embed the mesh. The recommended method is to apply the base coat in two (2) passes.
- C. Dryvit base coat surfaces in contact with sealant shall be coated with Color Prime or Demandit® Smooth. Sealant shall not be applied directly to textured finishes or base coat surfaces.
- D. The Dryvit base coat shall be allowed to dry for a minimum of 24 hours. Drying of the base coat is dependent on the air temperature and relative humidity.
- E. For soffit surfaces, which exceed 20 linear feet or soffit areas, which exceed 200 square feet, the use of control joints such as Plastic Components Inc. PL093 or 22027-16 is recommended.

**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 Textured Acrylic Finishes (TAFS Option 2) for Exterior Soffits has been installed, shall be left free of debris and foreign substances resulting from the Contractor's work.

**3.06 PROTECTION**

- A. The Dryvit Textured Acrylic Finishes (TAFS Option 2) for Exterior Soffits, and the project shall be protected from weather and other damage until permanent protection in the form of flashings, sealants, etc. are installed.

**DISCLAIMER**

Information contained in this specification conforms to standard detail and product recommendations for the installation of the Dryvit Textured Acrylic Finishes (TAFS Option 2) for Exterior Soffits 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.

