

**DRYVIT SYSTEMS, INC.
MANUFACTURER'S SPECIFICATIONS
SECTION 09800
E Finish**

PART I - GENERAL

1.01 Scope

- A. Provide all labor, materials and equipment necessary to apply E Finish over exterior concrete, stucco, masonry and exterior insulation and finish systems (EIFS).

1.02 Related Sections

- A. Unit Masonry 04200
B. Concrete 03300
C. Sealants 07900
D. Exterior Insulation and Finish System 07240

1.03 Description

- A. The Dryvit products include Dryvit's patented* E Finish(es), coating(s), primer(s), and patching compounds for use over exterior concrete, masonry, stucco and exterior insulation and finish systems (EIFS).
- B. Performance Requirements
1. Water Vapor Transmission (ASTM E96) Vapor Permeable
 2. Moisture Resistance (ASTM D2247) - 14-day exposure. No deleterious effects.
 3. Salt Spray Resistance (ASTM B117) - 500 hours. No deleterious effects.
 4. Accelerated Weathering (ASTM G155) - 5000 hours. No deleterious effects.
 5. Freeze/Thaw Resistance (EIMA 101.01) 60 cycles –No deleterious effects.
 6. Tensile Adhesion (EIMA 101.03) Minimum 5 psi; no failure in finish.
 7. Wet Scrub Resistance (ASTM D2486) 2000 cycles. No cracking, checking or loss of film integrity.
 8. Mildew Resistance (ASTM D3273) - Passes.
 9. Flame Spread (ASTM E84) - <25, Class I.

10. Mandrel Bend: (ASTM D522)
– Passed ½" at 21 °C (70 °F)
and 1" at 4 °C (40 °F).

1.04 Submittals

- A. Samples
1. The applicator shall submit two (2) .61 m x 1.2 m 2' x 4') samples of the proposed finish to the architect and/or owner for approval. **NOTE: E Finish colors appear slightly brighter than the same color in a Dryvit DPR finish. Exact color match from batch to batch cannot be guaranteed.**
- B. Mock-up
1. A minimum 1.2 m x 1.2 m (8' x 8') area of actual project or mock-up wall shall be coated with the accepted texture to establish a standard of acceptance by the owner, architect or project manager.
- C. Manufacturer's Information
1. Submit manufacturer's product information and specifications.

1.05 Quality Assurance

- A. Qualifications
1. System Manufacturer: Shall be Dryvit Systems, Inc. All materials shall be obtained from Dryvit Systems, Inc. or its authorized distributors.
 - 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. The applicator shall be knowledgeable in the application of exterior acrylic

architectural finishes and coatings.

B. Substrates

1. Application of E Finish shall be applied only to the following substrates when prepared in accordance with this specification.
 - a. Sound unglazed brick, unit masonry or concrete.
 - b. Sound stucco.
 - c. Sound exterior insulation and finish systems (EIFS).
2. The applicator shall verify that the proposed substrate is acceptable prior to application of E Finish.
3. Field bond tests shall be performed when applying E Finishes over questionable surfaces.

1.06 Delivery, Storage and Handling

- A. All Dryvit materials shall be delivered to the job site in the original, unopened packages with labels intact. Upon arrival, materials shall be inspected for physical damage, freezing or overheating. Questionable materials shall not be used.
- B. All Dryvit materials shall be stored in a cool, dry location, out of direct sunlight and protected from weather and other damage.
- C. Minimum storage temperature shall be 7 °C (45 °F) for Demandit® and 4 °C (40 °F) for E Finish, Color Prime™, Color Prime-W™, and Weatherpatch™.

1.07 Job Conditions

- A. Existing conditions: The applicator shall have access to electric power, clean water and a clean work area at the location where the Dryvit materials are to be installed.

B. Environmental Conditions:

1. The ambient air and wall temperatures shall be minimum 4 °C (40 °F) for application of E Finish, Color Prime and Color Prime-W, 7 °C (45 °F) for Demandit, and 10 °C (50 °F) for Weatherpatch. The temperature shall remain so for at least 24 hours thereafter, or longer if necessary for the materials to be sufficiently dried.

C. Protection

1. Adjacent areas/materials shall be protected from damage, drops and spills during the application of Dryvit materials.
2. The Dryvit materials shall be protected by permanent or temporary means from weather and other damage, prior to during, and immediately after application. Care must be taken to prevent condensation and/or heat buildup when using tarp or plastic to prevent damage to the Dryvit materials.

D. Sequencing and Scheduling:

1. Application of the Dryvit materials shall be coordinated with other construction trades.
2. Sufficient labor and equipment shall be employed to ensure a continuous operation, free of cold joints, texture variations, scaffold lines, etc.

1.08 Limited Materials Warranty

- A. Dryvit shall offer a written three (3) year Limited Materials Warranty upon receipt of a properly executed warranty request and completed project form.

1.09 Design Responsibility

- A. It is the responsibility of the specifier to determine if a product is suitable for its intended use. The specifier selected by the purchaser shall be responsible for all decisions pertaining to design, detail, structural capability, attachment details, shop drawings, etc. Dryvit has prepared guidelines

in the form of specifications and product sheets to facilitate the design process only. Dryvit Systems, Inc. is not liable for any errors or omissions in design, detail, structural capability, attachment details, shop drawings, etc. or for any changes which specifiers or their appointed representatives may make to Dryvit's published comments.

1.10 Maintenance

- A. 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 & Recoating.

PART II - PRODUCTS**2.01 General**

- A. All Dryvit products shall be supplied by and obtained from Dryvit or its authorized distributors. Substitutions or addition of other materials will void the warranty.

2.02 Components

- A. E Finish:
 1. Quarzputz® E: A 100% acrylic based finish with a coarse aggregate producing an open textured pattern in a regular or random style.
 2. Sandpebble® E: A 100% acrylic based finish with a pebble like texture.
 3. Sandpebble® Fine E: A 100% acrylic based finish with a fine, pebble like texture.
- B. Demandit: A smooth, nontextured 100% acrylic emulsion based exterior coating.
- C. Color Prime, Color Prime-W: A pigmented, exterior acrylic primer.
- D. Weatherpatch Patching Compound: A flexible, non-shrink, elastomeric patching compound available in brush and knife grades.

2.03 Materials

- A. Water: Shall be clean and potable.

2.04 Equipment

- A. Mixing shall be done with a clean Goldblatt Jiffler Mixer #15311H7 or equivalent powered by a 1/2" drill at 400-500 RPM.
- B. Tools associated with the plastering and painting trades.

PART III - EXECUTION**3.01 Inspection**

- A. Examination of Substrate.
 1. Ensure that the substrate is of a type and condition listed in Section 1.05.B.
- B. Ensure that minimum application temperatures are met per Section 1.07.B.

3.02 Substrate Preparation For E Finish

- A. Coated Substrates
 1. Shall be cleaned to remove all chalk, dirt, dust, loose coatings and other foreign materials.
 2. Loose, delaminated or spalled areas shall be repaired with an appropriate patching compound compatible with the substrate material.
- B. Noncoated Surfaces
 1. Surfaces shall be cleaned so as to be free of dirt, dust, form release agents, or other foreign matter which may interfere with the bond of a finish coating.
 2. Loose, delaminated or spalled surfaces shall be repaired with an appropriate patching material and allowed to cure a minimum of 7 days.
 3. New concrete shall cure for a minimum of 28 days prior to application of the Dryvit products.
 4. Prime surfaces with Color Prime or Color Prime-W acrylic primer.
 5. Terminations and juncture of dissimilar materials:
 - a. Sealant shall not be installed in direct contact with E Finish.
 - b. Caulk as necessary to the base material using compatible sealant.
 - c. Refer to Dryvit Publication DS153 for current listing

of sealants compatible with Dryvit products and recommended surface preparation.

- d. Materials shall be fully dried prior to sealant installation.

C. New Construction

1. Stucco

- a. All new cement plaster/stucco shall be damp cured for a minimum of 4 days, and have seven days overall cure prior to application of the Color Prime-W and E Finish.
- b. The brown coat surface shall be floated to promote densification and to provide a surface receptive to bonding of the finish. A wood or hard rubber float is recommended to ensure a surface with adequate "tooth" for the finish application. Floating to a smooth surface is not recommended and may result in cracking of the stucco or poor adhesion of the finish coat.
- c. Clean stucco walls to ensure removal of dirt, dust, efflorescence or any other foreign matter which may interfere with bond of a surface coating.
- d. Prime stucco surface with Color Prime or Color Prime-W acrylic primer.

2. Masonry

- a. Remove all fins, mortar droppings, etc. and ensure that mortar joints are sound and free of cracks or voids.
- b. Surface should be clean, dry and free of dust, dirt, or other foreign matter which may interfere with application or bond of a surface coating.
- c. Mortar joints shall be struck flush and surface skim coated with Genesis®, Genesis® DM or Genesis® DMS to

provide a smooth level base.

- d. Prime surface with Color Prime or Color Prime-W acrylic primer.

3. Concrete; precast, tilt-up, poured-in-place

- a. Concrete shall be allowed to cure a minimum of 28 days prior to application of surface coatings.
- b. Surfaces shall be free of dirt, dust, form release agents, efflorescence, curing compounds, etc.
- c. Very smooth precast or poured-in-place concrete shall be prepared by acid etching the surface to ensure a proper bond of surface coatings.
- d. Apply Color Prime or Color Prime-W acrylic primer to the concrete surface and allow to dry.

4. EIFS

- a. EIFS shall be installed in accordance with published installation instruction for the specific system specified.
- b. Color Prime or Color Prime-W may be applied over the reinforced base coat and allowed to dry.

D. Existing concrete, CMU or stucco: cracks shall be treated as follows:

1. Static cracks up to .8 mm (1/32 in) can be bridged by E Finish without special treatment.
2. Static cracks up to 3 mm (1/8 in) in width.
- a. Remove all loose material and clean the crack.
- b. Apply Weatherpatch knife or brush grade patching compound directly over the crack and feather out a minimum of 102 mm (4 in) on each side.
3. Static cracks 3 mm to 6.4 mm (1/8 in to 1/4 in) wide.
- a. Chip or grind out crack to a minimum 6.4 mm (1/4 in) wide by 6.4 mm (1/4 in) deep groove.

- b. Clean and remove all loose materials.

- c. Fill groove with knife grade Weatherpatch compound.

- d. Bridge crack with brush grade Weatherpatch compound. Apply at approximately 6.4 mm (1/4 in) thickness over the crack and feather out a minimum of 102 mm (4 in) on each side.

4. Static cracks over 6.4 mm (1/4 in) wide.

- a. Clean and remove all loose and unsound material from crack.
- b. Repair crack with non-shrinking cementitious patching mortar or cement plaster mix and allow to cure a minimum of 7 days.
- c. Coat with Color Prime or Color Prime-W and top dress with brush grade Weatherpatch if necessary.

5. Dynamic cracks 1.6 mm to 13 mm (1/16 in to 1/2 in) wide.

- a. Chip or grind out the crack so that the width is equal to the depth, but not less than 6.4 mm (1/4 in).
- b. Clean and remove all loose material from crack.
- c. Fill the crack with a high grade urethane sealant. Tool into joint and allow to cure minimum 24 hours.
- d. Apply a coat of brush grade Weatherpatch compound over the crack and feather out to a minimum of 102 mm (4 in) on each side
6. Prime wall surfaces with Color Prime or Color Prime-W acrylic primer and allow to dry.

- E. EIFS surfaces shall be skimmed out with Dryvit NCB™ or Freestyle® Finish to fill in texture prior to application of E Finish.

3.03 E Finish Application

- A. The substrate and substrate preparation shall be inspected by the contractor to ensure it is

documents and this specification.

B. Mixing

1. Mix the E Finish thoroughly to a uniform homogeneous consistency using a Goldblatt Jiffler Mixer No. 15311H7 powered by a 1/2" drill 400-500 RPM or equivalent. Mix until a uniform workable consistency is attained. It should not be necessary to add water. If a looser workability is desired after mixing, add no more than 60 ml (2 oz) of water per pail of any E Finish.

C. General

1. The E Finish can be spray or trowel applied in accordance with specific product instructions.
2. No additives shall be added under any circumstances.
3. The finish shall be applied to the entire wall surface in a continuous application to a natural break.
4. Finish shall be protected from airborne contamination such as dust, soot, etc. and from weather and other damage until fully dried.

D. Quarzputz E

1. Using a stainless steel trowel, apply and level a coat to a uniform thickness, no thicker than the largest aggregate. Using a plastic float, lightly texture the finish to a uniform appearance. Best results are achieved using less pressure when troweling and floating than with standard full weight finishes.

E. Sandpebble E and Sandpebble Fine E

1. Using a stainless steel trowel, apply an even coat to a thickness slightly thicker than the largest aggregate size. Using a plastic float, lightly texture the finish to a uniform appearance. Best results are achieved using less pressure when troweling and floating than with standard full weight finishes.

F. Color Prime, Color Prime-W,

1. Shall be applied to recommended coverage rate by brush, roller or airless spray equipment.
2. A maximum 19 mm (3/4 in) nap polyester or polyester blend with nylon or lamb's wool, beveled ends and phenolic core is recommended.
3. An 450 mm (18 in) wide roller frame with 57 mm (2¼ in) inside diameter roller is recommended.
4. Apply in a continuous application, maintaining a wet edge, to a natural break.

G. Weatherpatch

1. Brush grade Weatherpatch shall be applied using a nylon brush to the required thickness.
2. Knife grade Weatherpatch shall be applied using a putty knife or spatula to the required thickness.
3. Feather out to a smooth surface and uniform transition.

3.04 Field Quality Control

- A. Dryvit assumes no responsibility for on-site inspections. Dryvit Systems, Inc. and/or its distributors will provide field service support if reasonably requested by the applicator. The designer, general contractor, or their appointed representative and/or the applicator shall be responsible for the proper application of the Dryvit materials. Dryvit assumes no liability or responsibility for the applicator's workmanship.

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- B. If requested, the applicator shall certify in writing the quality of work performed relative to the substrate system, details, installation procedures and workmanship is in accordance with project specifications and manufacturer's instructions.
- C. If requested, the sealant applicator shall certify in writing that the sealant application is in accordance with the sealant manufacturer's and Dryvit's recommendations.

3.05 Clean-Up

- A. Materials left over by the applicator at the job site shall be removed by the applicator.
- B. The applicator shall clean adjacent materials and surfaces and the work area of foreign materials resulting from their work.

Disclaimer

Information contained in this specification conforms to standard detail and product recommendations for the installation of Dryvit Systems, Inc. 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 insure that you are using the latest, most complete information, contact Dryvit Systems, Inc.

* E Finishes are patented pursuant to U.S. Patent No. 6,617,386.

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