

WEATHERLASTIC FINISH



DSC139

DRYVIT SYSTEMS CANADA
MANUFACTURER'S SPECIFICATIONS
SECTION 09800

WEATHERLASTIC ELASTOMERIC ARCHITECTURAL COATINGS AND RESTORATION PRODUCTS

PART I - GENERAL

1.01 Scope

- A. Provide all labor, materials and equipment necessary to apply the Weatherlastic products 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 Weatherlastic products include elastomeric and acrylic finishes, coatings, primers, and patching compounds for use over exterior concrete, masonry, stucco and exterior insulation and finish systems (EIFS).

1.04 Submittals

- A. Samples
1. The applicator shall submit two (2) .61 m x 1.2 m (2 ft x 4 ft) samples of the proposed finish to the architect and/or owner for approval. **NOTE: Weatherlastic finish colors appear slightly darker 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 2.4 m x 2.4 m (8 ft x 8 ft) area of actual project or mock-up wall shall be coated with the accepted finish 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 Canada. All materials shall be obtained from Dryvit Systems Canada 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 and elastomeric architectural finishes and coatings.
- B. Substrates
1. Application of Weatherlastic products 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 Weatherlastic products.

1.06 Delivery, Storage and Handling

- A. All Weatherlastic 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 Weatherlastic 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 Weathercoat™ and 4 °C (40 °F) for Weatherlastic finishes, Weatherprime 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 Weatherlastic 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 Weatherlastic finishes and Weatherprime, 7 °C (45 °F) for Weathercoat, 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 Weatherlastic materials.
 - 2. The Weatherlastic 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 Weatherlastic materials.
- D. Sequencing and Scheduling:
 - 1. Application of the Weatherlastic 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 five (5) 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 Canada 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 DSC152 on Cleaning & Recoating.

PART II - PRODUCTS**2.01 General**

- A. All Weatherlastic 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. Weatherlastic Elastomeric Finishes and Coatings:
 - 1. Weatherlastic Quarzputz®: A 100% acrylic based finish utilizing an elastomeric binder with a coarse aggregate producing an open textured pattern in a regular or random style.
 - 2. Weatherlastic Sandpebble: A 100% acrylic based finish utilizing an elastomeric binder with a pebble like texture.
 - 3. Weatherlastic Sandpebble Fine: A 100% acrylic based finish utilizing an elastomeric binder with a fine, pebble like texture.
 - 4. Weatherlastic Adobe: A 100% acrylic based finish utilizing an elastomeric binder with a smooth fine sand texture.
 - 5. Weatherlastic Smooth: A smooth, nontextured 100% acrylic based coating utilizing an elastomeric binder.
- B. Weathercoat Acrylic Coating: A smooth, nontextured 100% acrylic emulsion based exterior coating.
- C. Weatherprime Acrylic Primer: 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 13 mm (1/2 in) 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 Weatherlastic Elastomeric Finishes

- 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 and 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 areas shall be repaired with an appropriate cementitious patching compound and allowed to cure a minimum of 7 days.
 - 3. New stucco or concrete shall cure for a minimum of 28 days prior to application of the Weatherlastic products.
 - 4. Prime surfaces with Weatherprime acrylic primer.
 - 5. Terminations and juncture of dissimilar materials:
 - a. Caulk as necessary using compatible sealant.
 - b. Sealant shall be compatible with Dryvit products. Refer to Dryvit Publication DSC153 for current listing.
 - c. Weatherlastic materials shall be fully dried prior to sealant installation.
- C. New Construction
 - 1. Stucco
 - a. Stucco shall be dry and fully cured prior to application of coatings.
 - b. Clean stucco walls to ensure removal of dirt, dust, efflorescence or any other foreign matter which may interfere with bond of a surface coating.
 - c. Prime stucco surface with Weatherprime 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. Face of block shall be filled with a block filler or cementitious parge coat and allowed to dry. As an alternate, Dryvit Genesis may be used to skim block.
 - d. Prime surface with Weatherprime 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 cleaned by acid etching the surface to ensure a proper bond of surface coatings.
 - d. Apply Weatherprime acrylic primer to the concrete surface and allow to dry.
- D. Cracks shall be treated as follows:
 - 1. Static cracks up to .8 mm (1/32 in) can be bridged by Weatherlastic finishes 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 Weatherprime 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 patched surfaces with Weatherprime acrylic primer.
7. EIFS surfaces shall be skimmed out with Dryvit NCB™ or Freestyle Finish® to fill in texture prior to application of textured Weatherlastic finishes.

3.03 Weatherlastic Finish Application

- A. The substrate and substrate preparation shall be inspected by the contractor to ensure it is in compliance with this specification.
- B. Mixing
 1. Mix the Weatherlastic finish thoroughly to a uniform homogeneous consistency using a Goldblatt Jiffler Mixer No. 15311H7 powered by a 13 mm (1/2 in) drill 400-500 RPM or equivalent. Mix until a uniform workable consistency is attained.
- C. General
 1. The Weatherlastic finish can be brush, 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. Weatherlastic Quarzputz, Sandpebble, Sandpebble Fine
 1. A tight coat shall be applied to the base coat. When trowel applied, leveling and texture shall take place in one operation.
 2. The thickness shall be not greater than 1 1/2 times the thickness of the largest aggregate.
- E. Weatherlastic Adobe
 1. Using a stainless steel trowel, apply the Adobe finish in two separate passes, each approximately .4 mm (1/64 in) thick. Allow the first coat to take up sufficiently so that it is not disturbed by the second coat. Under normal drying conditions, two hours should be sufficient.
 2. Using a stainless steel trowel or pool trowel, smooth the surface of the second coat, applying a water mist by atomizer bottle. Trowel to desired smoothness. This trowel motion and water misting will cause the finish to take on a smooth, mottled color appearance similar to a Southwestern Adobe style.
- F. Weatherlastic Smooth Coating Application
 1. Brush application recommended only for cutting in and trim, not for entire wall elevation.
 - a. Nylon bristle brush is recommended.
 - b. For best performance, a minimum 11 mils dry film thickness (22 mils wet film thickness), shall be applied.
 2. Roller Application
 - a. Minimum 250 mm (10 in) wide roller cover with 32 mm – 38 mm (1 1/4 in - 1 1/2 in) nap is recommended.
 - b. Completely saturate the roller cover and keep the roller loaded with coating to avoid foaming. Do not dry-roll or over-roll as this will cause excessive entrapment of air within the coating.
 - c. For best performance, a minimum 11 mils dry film thickness (22 mils wet film thickness), shall be applied. Two coats of approximately 11 wet mils per coat are recommended.
 3. Spray Application
 - a. Application by airless spray equipment or mastic pump and gun allows application of coating at total required application rate with a minimum of stipple or thickness variations.
 - b. Equipment should have the capacity to pump minimum of two gallons of coating per minute.
 - c. Material hose should be minimum 13 mm (1/2 in) I.D. for spraying coating more than a 15 m (50 ft) length. Minimum bursting of 360 kg (800 lbs) is recommended.

- d. Tip orifice sizes of .021-.032 will be required depending on equipment used.
- e. Cross apply coating holding spray gun perpendicular to, and approximately 1 m (3 ft) from the surface. Avoid excessive material build-up by holding spray gun away from the wall when pulling the trigger, then bringing gun across area to be coated. Maintain a wet edge, and avoid starting and stopping in the middle of the wall. Do not attempt to overreach spray pattern as this may result in appearance of irregular spray pattern. Place scaffolding and equipment to facilitate quick application without numerous interruptions.
- f. A 10% loss from overspray should be anticipated.
- g. Backrolling over sprayed areas is recommended to control pinholing on spray applications over porous surfaces.
- h. All sprayed applications must be free of pinholes to insure waterproofing performance.
- i. For best performance, a minimum 11 mils dry film thickness (22 mils wet film thickness), shall be applied.

G. Weatherprime, Weathercoat

- 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. A 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.

H. 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 Canada and/or its distributors will provide field service support if reasonably requested by the applicator. The designer, general contractor, or their appointed representative should make periodic on-site inspections to ensure that the Dryvit materials are being installed in strict accordance with Dryvit's specifications. The applicator shall be responsible for the proper application of the Dryvit materials. Dryvit assumes no liability or responsibility for the applicator's workmanship. **NOTE: Weatherlastic finish colors appear darker than the same color in a Dryvit DPR finish. Exact color match from batch to batch cannot be guaranteed.**
- B. If requested, the applicator shall certify in writing that 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.

Information contained in this specification conforms to standard detail and product recommendations for the installation of Dryvit Systems Canada products as of the date of publication of this document and is presented in good faith. Dryvit Systems Canada 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 Canada.