

OUTSULATION[®] PLUS MD SYSTEM[®]



DS853

An Exterior Wall Insulation and Finish System With Moisture Drainage
That Incorporates Continuous Insulation and An Air/Water-Resistive Barrier

Outsulation Plus MD System Specifications CSI Compliant



INTRODUCTION

This manufacturer's guide specification is intended for use by design and construction professionals in the development of project specifications. By referring to the manufacturer's edit notes (**in parentheses and bolded**), the specifier may easily elect the portions of the comprehensive guide specification which are pertinent to his or her project. This guide specification follows the Construction Specification Institute's MasterFormat and SectionFormat protocols.

Also, it may be prudent to place certain parts of the Dryvit Outsulation Plus MD Specification in other parts of the project's total specification, such as sealants and framing. The project design professionals are responsible for verifying that the project specifications are suitable for the project. For assistance in preparing your specification, please contact your Dryvit Distributor or Dryvit Systems, Inc.

WARNING

The Outsulation Plus MD System is designed as a drainage wall system and is detailed to discharge incidental moisture from within the System. Specifications should be followed and proper details adhered to, in order to prevent water intrusion, resulting in possible damage to the System or other building elements. Care should be taken to ensure that all building envelope elements, including without limitations, roofs, windows, flashings, sealants, etc., are compatible with this system.

The Outsulation Plus MD System is an engineered assembly of multiple compatible components: A fluid-applied air and water-resistive barrier, adhesive, rigid insulation board, base coat, reinforcing mesh, and finish coat.

DISCLAIMER

It is the responsibility of both the specifier and the purchaser to determine if a product is suitable for its intended use. The designer selected by the purchaser is responsible for all decisions pertaining to design, detail, structural capability, attachment details, shop drawings and the like. The Exterior Insulation and Finish System with Moisture Drainage Manufacturer has prepared guidelines in the form of specifications, installation details, application instructions and product data sheets to facilitate the design process only. The Manufacturer 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 the Manufacturer or otherwise, or for any changes which purchasers, specifiers, designers, or their appointed representatives may make to the Manufacturer's published comments.

Information contained in this specification conforms to standard detail and product recommendations for the installation of the Dryvit Outsulation Plus MD System 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 installation of any project. To insure that you are using the latest, most complete information, visit our website at www.dryvit.com or contact Dryvit Systems, Inc., at:

**One Energy Way
West Warwick, RI 02893
(401) 822-4100
www.dryvit.com**

* The Trained Contractor Certificate referenced in Sections 1.04.D, 1.06.B.2, 1.06.D.2 of this guide specification indicates certain employees of the EIFS sub-contractor 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 or endorsement. Each trained contractor is an independent company experienced in the trade and bears responsibility for its own quality. Dryvit Systems, Inc. assumes no liability for the performance of a trained contractor.

**DRYVIT SYSTEMS, INC.
 MANUFACTURER'S GUIDE SPECIFICATION
 CSI FORMAT SECTION 07 24 19
 OUTSULATION® PLUS MD SYSTEM®
 EXTERIOR INSULATION AND FINISH SYSTEM WITH MOISTURE DRAINAGE**

PART 1 GENERAL**1.01 SUMMARY**

A. Section Includes:

1. This document is to be used in preparing specifications for an Exterior Insulation and Finish System (EIFS) with Moisture Drainage and an air and water-resistive barrier.

B. Related Requirements:

(Note to Specifier: please delete any sections below not relevant to this project, and add others as required)

- | | | |
|-----|----------|--|
| 1. | 03 30 00 | Cast-in-place Concrete |
| 2. | 03 40 00 | Precast Concrete |
| 3. | 04 20 00 | Unit Masonry |
| 4. | 05 40 00 | Cold-formed Metal Framing |
| 5. | 06 11 00 | Wood Framing |
| 6. | 06 16 00 | Sheathing |
| 7. | 07 26 13 | Above-grade Vapor Retarders |
| 8. | 07 27 26 | Fluid-applied Air Barriers |
| 9. | 07 62 00 | Sheet Metal Flashing and Trim |
| 10. | 07 90 00 | Joint Protection |
| 11. | 08 40 00 | Entrances, Store Fronts, and Curtain Walls |
| 12. | 08 50 00 | Windows |

1.02 REFERENCES

(Note to Specifier: please delete any standards below not relevant to this project, and add others as required. A table with each of the standards, applicable test methods, and results may be found at www.dryvit.com)

A. Reference Standards:

1. ASTM Standards:

- | | | |
|----|-------------|--|
| a. | ASTM B 117 | Standard Practice for Operating Salt Spray (Fog) Apparatus |
| b. | ASTM C 67 | Standard Test Methods for Sampling and Testing Brick and Structural Clay Tile |
| c. | ASTM C 150 | Standard Specification for Portland Cement |
| d. | ASTM C 297 | Standard Test Method for Flatwise Tensile Strength of Sandwich Constructions |
| e. | ASTM C 1063 | Standard Specification for Installation of Lathing and Furring to Receive Interior and Exterior Portland Cement Plaster. |
| f. | ASTM C 1177 | Standard Specification for Glass Mat Gypsum Substrate for Use as Sheathing |
| g. | ASTM C 1396 | Standard Specification for Gypsum Board |
| h. | ASTM C 1397 | Standard Practice for Application of Class PB Exterior Insulation and Finish System (EIFS) and EIFS with Drainage |
| i. | ASTM D 968 | Standard Test Methods for Abrasion Resistance of Organic Coatings by Falling Abrasive |
| j. | ASTM D 1784 | Standard Specification for Rigid PVC and CPVC Compounds |
| k. | ASTM D 1970 | Standard Specification for Self-Adhering Polymer Modified Bituminous Sheet Materials Used as Steep Roofing Underlayment for Ice Dam Protection |
| l. | ASTM D 2247 | Standard Practice for Testing Water Resistance of Coatings in 100% Relative Humidity |
| m. | ASTM D 2898 | Standard Test Method for Accelerated Weathering of Fire-Retardant-Treated Wood for Fire Testing |

- n. ASTM D 3273 Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber
 - o. ASTM D 4060 Standard Test Method for Abrasion Resistance of Organic Coatings by the Taber Abraser
 - p. ASTM E72 Standard Methods of Conducting Strength Tests Of Panels For Building Construction
 - q. ASTM E 84 Standard Test Method for Surface Burning Characteristics of Building Materials
 - r. ASTM E 96 Standard Test Methods for Water Vapor Transmission of Materials
 - s. ASTM E 119 Standard Method for Fire Tests of Building Construction and Materials
 - t. ASTM E 283 Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls and Doors Under Specified Pressure Differences Across the Specimen
 - u. ASTM E 330 Test Method for Structural Performance of Exterior Windows, Doors and Curtain Walls by Uniform Static Air Pressure Difference
 - v. ASTM E 331 Test Method for Water Penetration of Exterior Windows, Skylights, Doors and Curtain Walls by Uniform Static Air Pressure Difference
 - w. ASTM E1233 Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights, and Curtain Walls by Cyclic Air Pressure Differential
 - x. ASTM E 2098 Test Method for Determining the Tensile Breaking Strength of Glass Fiber Reinforcing Mesh for use in Class PB Exterior Insulation and Finish Systems (EIFS), after Exposure to Sodium Hydroxide Solution
 - y. ASTM E 2134 Test Method for Evaluating the Tensile-Adhesion Performance of Exterior Insulation and Finish Systems (EIFS)
 - z. ASTM E 2178 Standard Test Method for Air Permeance of Building Materials
 - aa. ASTM E 2273 Test Method for Determining the Drainage Efficiency of Exterior Insulation and Finish Systems (EIFS) Clad Wall Assemblies
 - bb. ASTM E 2357 Standard Test Method for Determining Air Leakage of Air Barrier Assemblies
 - cc. ASTM E 2430 Standard Specification for Expanded Polystyrene (EPS) Thermal Insulation Boards for use in Exterior Insulation and Finish Systems (EIFS)
 - dd. ASTM E 2485 Standard Test Method for Freeze-Thaw Resistance of Exterior Insulation and Finish Systems (EIFS) and Water-Resistive Barrier Coatings
 - ee. ASTM E 2486 Standard Test Method for Impact Resistance of Class PB and PI Exterior Insulation and Finish Systems (EIFS)
 - ff. ASTM E 2568 Standard Specification for PB Exterior Insulation and Finish Systems
 - gg. ASTM E 2570 Standard Test Method for Evaluating Water-Resistive Barrier (WRB) Coatings Used Under Exterior Insulation and Finish Systems (EIFS) or EIFS with Drainage
 - hh. ASTM G 154 Standard Practice for Operating Fluorescent Light Apparatus for UV Exposure of Nonmetallic Materials
 - ii. ASTM G 155 Standard Practice for Operating-Xenon Arc Light Apparatus for Exposure of Nonmetallic Materials
2. National Fire Protection Association (NFPA) Standards:
- a. NFPA 268 Standard Test Method for Determining Ignitability of Exterior Wall Assemblies Using a Radiant Heat Source
 - b. NFPA 285 Standard Fire Test Method for Evaluation of Fire Propagation Characteristics of Exterior Non-Load Bearing Wall Assemblies Containing Combustible Components
3. Manufacturer's Standards and Documents:
- (Note to Specifier: These documents and specific product data sheets are available on the manufacturer's website at: www.dryvit.com)**
- a. DS131 Dryvit Expanded Polystyrene Insulation Board Specification
 - b. DS152 Dryvit Cleaning and Recoating
 - c. DS153 Dryvit Expansion Joints and Sealants
 - d. DS248 Dryvit Compound Warranty Program

1.03 ADMINISTRATIVE REQUIREMENTS

A. Pre-Installation Meetings

(Note to Specifier: Work in this section requires coordination with related sections and trades. A pre-installation meeting of all related sub-contractors is strongly recommended)

B. Sequencing

1. Provide jobsite grading prior to installation of Exterior Insulation and Finish System with moisture drainage so that the system may be terminated at 8 in above grade or as required by code.
2. Coordinate installation of foundation waterproofing, roofing membrane, windows, doors, and other penetrations of the exterior walls to provide a continuous air and water-resistive barrier.
3. Provide protection of rough openings before installing windows, doors, and other penetrations of the exterior walls.
4. Coordinate installation of windows and doors so air and water-resistive barrier components are connected to them to provide a continuous barrier.
5. Install window and door head flashings immediately after windows and doors are installed.
6. Install diverter flashings wherever water can enter the wall assembly to direct water to the exterior.
7. Install copings and sealants immediately after installation of the Exterior Insulation and Finish System with moisture drainage and when EIFS coatings are dry.
8. Attach penetrations through Exterior Insulation and Finish System to structural support and provide water-tight seals at penetrations.

1.04 ACTION SUBMITTALS / INFORMATIONAL SUBMITTALS

- A. Submit product data as required by Section 01 33 00, Administrative Requirements.
- B. Submit shop drawings for panelized EIFS with moisture drainage showing wall layout, connections, details, expansion joints, and installation sequence.
- C. Submit two (2) samples of the Exterior Insulation and Finish System with moisture drainage for each finish, texture, and color to be used on the project. Use the same tools and techniques proposed for the actual installation. Make the samples of sufficient size to accurately represent each color and texture being utilized on the project.
- D. Submit a current copy of the manufacturer's Trained Contractor Certificate for the system specified.
- E. Submit Owner/Architect-requested test results verifying the performance of the Exterior Insulation and Finish System with Moisture Drainage. Refer to Outsulation Plus MD System Performance Criteria Data Sheet DS852.
- F. Submit a copy of the manufacturer's installation details and application instructions.

1.05 CLOSEOUT SUBMITTALS

- A. Submit a copy of the manufacturer’s recommended maintenance and repair manual.
- B. Submit a copy of the Exterior Insulation and Finish System with Moisture Drainage manufacturer’s standard warranty.

1.06 QUALITY ASSURANCE

(Note to Specifier: please delete any qualification below not relevant to this project, and add others as required)

A. Manufacturer’s Qualifications:

(Note to Specifier: coordinate with section 01 43 00, Quality Requirements)

- 1. A member in good standing of the EIFS Industry Members Association (EIMA).
- 2. Manufacture Exterior Insulation and Finish System with moisture drainage materials at a facility covered by a current ISO 9001:2008 and ISO 14001:2004 certification. Certification of the facility is done by a registrar accredited by the American National Standards Institute, Registrar Accreditation Board) ANSI-RAB).

B. Contractor Qualifications:

- 1. Knowledgeable in the proper installation of the Exterior Insulation and Finish System with Moisture Drainage.
- 2. Possess a current Outsulation Plus MD System Trained Contractor Certificate* issued by Dryvit Systems, Inc.
- 3. Successfully complete a minimum of three (3) projects of similar scope and scale to the specified project.

C. Insulation Board Manufacturer Qualifications:

- 1. Listed by Dryvit Systems, Inc., and capable of producing the Expanded Polystyrene (EPS) in accordance with the current Dryvit Specification for Insulation Board, DS131.
- 2. Subscribe to the Dryvit Third Party Certification and Quality Assurance Program.

D. Panel Fabricator Qualifications:

- 1. Experienced and competent in the fabrication of architectural wall panels.
- 2. Possess a current Outsulation Plus MD System Trained Contractor Certificate* issued by Dryvit Systems, Inc.

E. Panel Erector Qualifications:

- 1. Experienced and competent in the installation of architectural wall panel systems.
- 2. Shall be:
 - a. The panel fabricator or
 - b. An erector approved by the panel fabricator or
 - c. An erector under the direct supervision of the panel fabricator

F. Mock-Up:

1. Provide the owner/architect with a mock-up for approval.
 - a. Of suitable size as required to accurately represent the products being installed, as well as each color and texture to be utilized on the project.
 - b. Prepared with the same products, tools, equipment and techniques required for the actual applications. Use finish from the same batch that is being used on the project.
 - c. Available and maintained at the jobsite.

G. Regulatory Requirements:

1. Separate the EPS insulation board from the interior of the building by a minimum 15-minute thermal barrier.
2. Comply with local building codes for the use and maximum thickness of EPS insulation board.

H. Inspections:

1. Cooperate with independent, third-party inspectors when required by code or by contract documents.

1.07 DELIVERY, STORAGE AND HANDLING

1. Deliver all Exterior Insulation and Finish System with moisture drainage components and materials to the job site in the original, unopened packages with labels intact.
2. Inspect all Exterior Insulation and Finish System with moisture drainage components and materials upon arrival for physical damage, freezing or overheating. Do not use questionable materials.
3. Store all Exterior Insulation and Finish System with moisture drainage components and materials at the jobsite in a cool, dry location, out of direct sunlight, protected from weather and other sources of damage. Maintain minimum and maximum storage temperature as stated in the product data sheets or specifications for the materials selected. **NOTE: Finishes exposed to temperatures over the published maximum storage temperature for even short periods may exhibit skinning and increased viscosity.**
 (Note to Specifier: please refer to specific product data sheets or specifications at www.dryvit.com for more information)
4. Protect all products from inclement weather and direct sunlight.

1.08 SITE CONDITIONS

A. Ambient Conditions

1. Do not apply wet materials during inclement weather unless appropriate protection is provided. Protect materials from inclement weather until they are completely dry.
2. Verify the minimum air and wall surface temperatures at the time of application as stated in the product data sheets or specifications for the materials selected.
3. Maintain these temperatures 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.
 (Note to Specifier: please refer to specific product data sheets at www.dryvit.com for more information)
 (Note to Specifier: The use of dark colors must be considered in relation to wall surface temperature as a function of local climatic conditions. Use of dark colors in high temperature climates can affect the performance of the system.)

1.09 WARRANTY

A. Manufacturer’s Warranty

(Note to Specifier: an extended, single-source warranty is available when Dryvit Outsulation Plus MD System is paired with specific Tremco Sealants. Please see Dryvit document DS248 at www.dryvit.com.)

1. Provide manufacturer’s standard warranty.

B. Contractor Warranty

1. Sub-contractor to provide warranty of installation. Manufacturer assumes no liability for installation of Exterior Insulation and Finish System with moisture drainage.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

A. Manufacturers List:

1. Dryvit Systems, Inc., One Energy Way, West Warwick, RI 02893, 800-556-7752, www.dryvit.com.

B. Substitution Limitations:

1. All components of the Outsulation Plus MD System shall be supplied or obtained from Dryvit or its authorized distributors. Substitutions or additions of materials manufactured or supplied by others will void the system warranty.

C. Product Options:

(Note to Specifier: please select appropriate method of application for your project)

1. Field Applied: The Outsulation Plus MD System is applied to the substrate system in place.
2. Panelized: The Outsulation Plus MD System is shop-applied to prefabricated wall panels.

2.02 DESCRIPTION

A. System Description:

1. The Dryvit Outsulation Plus MD System is an Exterior Insulation and Finish System (EIFS) with Moisture Drainage; consisting of:
 - a. A fluid-applied air/water-resistive barrier
 - b. Adhesive – installed in vertical ribbons to facilitate egress of incidental moisture
 - c. Expanded Polystyrene (EPS) insulation board
 - d. Base Coat
 - e. Reinforcing Mesh
 - f. Finish Coat

B. Materials:

1. Air and Water-Resistive Barrier:
 - a. Dryvit Backstop® NT™ fluid-applied noncementitious air/water-resistive barrier
 - b. Dryvit Grid Tape™ open weave fiberglass mesh tape with pressure-sensitive adhesive available in rolls 4 in (102 mm) wide by 100 yds (91 m) long
 - c. Dryvit Backstop® DMS sprayable single step air/water-resistive barrier and adhesive.

(Note to Specifier: Backstop DMS is not approved for use over wood substrates)

2. Flashing:
 - a. AquaFlash® fluid-applied water-based polymer coating.
 - b. AquaFlash polyester reinforcing mesh.
 - c. Dryvit Flashing Tape™ rubberized asphalt adhesive available in rolls 4 in (102 mm), 6 in (152 mm) and 9 in (229 mm) wide by 75 ft (23 m) long.
 - d. Dryvit Flashing Tape Surface Conditioner™ water-based surface conditioner and adhesion promoter.

3. Drainage:
 - a. Drainage Track UV treated PVC “J” channel perforated with weep holes, complying with ASTM D 1784 and ASTM C 1063. **(Dryvit Drainage Track usage is limited to the base of the system at finished grade level. Use Dryvit Drainage Strip at all other horizontal terminations.)**
 - b. Acceptable manufacturers of drainage track:
 - 1) Starter Trac STWP – without drip edge by Plastic Components, Inc.
 - 2) Starter Trac STDE – with drip edge by Plastic Components, Inc.
 - 3) Universal Starter Track by Wind-lock Corporation
 - 4) Sloped Starter Strip with Drip by Vinyl Corp.
 - c. Dryvit Drainage Strip™ corrugated plastic strip.
 - d. Dryvit AP Adhesive™ urethane-based adhesive used to attach Drainage Track and Dryvit Drainage Strip to the sheathing.

4. Adhesives:

(Used to adhesively attach the EPS insulation board to the air and water-resistive barrier; compatible with both materials.)

 - a. Liquid polymer-based adhesive field mixed with Portland cement.
 - 1) Dryvit Primus®
 - 2) Dryvit Genesis®
 - b. Ready mixed dry blend cementitious, copolymer-based adhesive field mixed with water.
 - 1) Dryvit Primus® DM
 - 2) Dryvit Genesis® DM
 - 3) Dryvit Genesis® DMS
 - 4) Rapidry DM™ 35-50
 - 5) Rapidry DM™ 50-75

5. Insulation Board:
 - a. Expanded Polystyrene; minimum thickness 25 mm (1 in); meeting Dryvit Specification DS131 and ASTM E 2430.

6. Base Coat:
 - a. Liquid polymer-based adhesive field mixed with Portland cement.
 - 1) Dryvit Primus
 - 2) Dryvit Genesis
 - b. Ready mixed dry blend cementitious, copolymer-based adhesive field mixed with water.
 - 1) Dryvit Primus DM
 - 2) Dryvit Genesis DM
 - 3) Dryvit Genesis DMS
 - 4) Rapidry DM 35-50
 - 5) Rapidry DM 50-75

7. Reinforcing Mesh:

- a. Open-weave, glass fiber fabric treated for compatibility with other system materials.
(Note to Specifier: Reinforcing meshes are classified by impact resistance and specified by weight and tensile strength. Please refer to the table below and/OR confer with your manufacturer’s representative to assure specification of mesh appropriate for the anticipated use of your project.)

Reinforcing Mesh ¹ /Weight oz/yd ² (g/m ²)	Minimum Tensile Strengths	EIMA Impact Classification	EIMA Impact Range		Impact Test Results	
			in-lbs	(Joules)	in-lbs	(Joules)
Standard - 4.3 (146)	150 lbs/in (27 g/cm)	Standard	25-49	(3-6)	36	(4)
Standard Plus - 6 (203)	200 lbs/in (36 g/cm)	Medium	50-89	(6-10)	56	(6)
Intermediate™ - 12 (407)	300 lbs/in (54 g/cm)	High	90-150	(10-17)	108	(12)
Panzer® 15 ¹ - 15 (509)	400 lbs/in (71 g/cm)	Ultra High	>150	(>17)	162	(18)
Panzer 20 ¹ - 20.5 (695)	550 lbs/in (98 g/cm)	Ultra High	>150	(>17)	352	(40)
Detail Mesh® Short Rolls - 4.3 (146)	150 lbs/in (27 g/cm)	n/a	n/a	n/a	n/a	n/a
Corner Mesh™ - 7.2 (244)	274 lbs/in (49 g/cm)	n/a	n/a	n/a	n/a	n/a

* It shall be colored blue and bear the Dryvit logo for product identification

1. Shall be used in conjunction with Standard Mesh (recommended for areas exposed to high traffic)

8. Finish:

- a. Water-based, acrylic coating with integral color and texture; formulated with Dirt Pickup Resistance (DPR) chemistry.
 - 1) Available textures:
 - a) Quarzputz® DPR – open texture
 - b) Sandblast® DPR – medium texture
 - c) Freestyle® DPR – fine texture
 - d) Sandpebble® DPR – pebble texture
 - e) Sandpebble® Fine – fine pebble texture
- b. Hydrophobic (HDP™) Finishes: 100% acrylic coating with integral color and texture and formulated with hydrophobic properties:
 - 1) Available textures:
 - a) Quarzputz® HDP
 - b) Sandblast® HDP
 - c) Sandpebble® HDP
 - d) Sandpebble® Fine HDP
 - e) Limestone™ HDP
 - f) Finesse™ HDP
- c. Lightweight, water-based acrylic coating with integral color and texture; formulated with Dirt Pickup Resistance (DPR) chemistry.
 - 1) Available textures:
 - a) Quarzputz® E
 - b) Sandpebble® E
 - c) Sandpebble Fine® E

9. Factory mixed, water-based specialty finishes:

- 1) Ameristone – multi-colored quartz aggregate with a flamed granite appearance.
- 2) Stone Mist® - ceramically colored quartz aggregate.
- 3) Custom Brick™ – acrylic polymer-based finish used in conjunction with a proprietary template system to create the look of stone, brick, slate, or tile.
- 4) TerraNeo – acrylic-based finish with large mica chips and multi-colored quartz aggregates.
- 5) Limestone – premixed, acrylic-based finish designed to replicate the appearance of limestone blocks.
- 6) Reflectit™ – acrylic coating providing a pearlescent appearance.
- 7) Finesse – a smooth 100% acrylic-based dirt pickup resistance finish.

10. Elastomeric, water-based acrylic coating with integral color and texture; formulated with Dirt Pickup Resistance (DPR) chemistry:
 - 1) Weatherlastic® Quarzputz
 - 2) Weatherlastic® Sandpebble
 - 3) Weatherlastic® Sandpebble Fine
 - 4) Weatherlastic® Adobe

11. Medallion Series water-based, acrylic coating with integral color and texture; formulated with Proven Mildew Resistance (PMR™) chemistry:
 - 1) Quarzputz® PMR
 - 2) Sandblast® PMR
 - 3) Freestyle® PMR
 - 4) Sandpebble® PMR
 - 5) Sandpebble® Fine PMR

12. Coatings, Primers, and Sealants:
 - 1) Demandit® Smooth
 - 2) Demandit® Sanded
 - 3) HDP Water-Repellent Coating
 - 4) Weatherlastic® Smooth
 - 5) Tuscan Glaze™
 - 6) Color Prime
 - 7) Prymit®
 - 8) SealClear™

C. Jobsite-Mixed Materials:

1. Portland cement: verify is Type I or II, meeting ASTM C 150, white or gray in color, fresh and free of lumps.
2. Water: verify is clean and free of foreign matter.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verification of Conditions:

1. Verify access to electric power, clean water and a clean work area at the location where the Dryvit materials are to be applied.
2. Verify that wall surface on which Exterior Insulation and Finish System is to be installed is a manufacturer-approved substrate:
 - a. Exterior grade gypsum sheathing meeting ASTM C 1396.
 - b. Exterior glass-mat gypsum sheathing meeting ASTM C 1177.
 - c. Exterior fiber reinforced cement or calcium silicate boards.
 - d. APA Exterior or Exposure 1 Rated Plywood, Grade C-D or better, nominal 12.7 mm (1/2 in), minimum, installed with the C face out.
 - e. APA Exterior or Exposure 1 Fire Retardant Treated (FRT) Plywood, Grade C-D or better, nominal 12.7 mm (1/2 in), minimum, installed with the C face out.
 - f. APA Exposure 1 Rated Oriented Strand Board (OSB) nominal 12.7 mm (1/2 in), minimum. **Note: Applications over OSB sheathing requires a minimum of 2 coats of Backstop NT – Smooth or Spray. Backstop NT – Texture is not recommended for the field of wall application over OSB.**
 - g. Unglazed brick, cement plaster, concrete or masonry.
3. Verify the deflection of the substrate is does not exceed 1/240 times the span.

4. Verify substrate is flat within 1/4 in (6.4 mm) in a 4 ft (1.2 m) radius.
5. Verify substrate is sound, dry, connections are tight; has no surface voids, projections, or other conditions that may interfere with the Exterior Insulation and Finish System with moisture drainage installation or performance.
6. Verify the slope of inclined surfaces are not less than 6:12 (27 °), and the length of the slope does not exceed 12 in (305 mm).
7. Verify metal roof flashings have been installed in accordance with Sheet Metal and Air Conditioning Contractors National Association (SMACNA) standards.
8. Verify all rough openings are flashed in accordance with the Exterior Insulation and Finish System with moisture drainage manufacturer's installation details, or as otherwise necessary to prevent water penetration. Verify chimneys, balconies and decks have been properly flashed as necessary to prevent water penetration.
9. Verify windows and doors are installed and flashed per manufacturer's requirements and installation details.
10. Notify general contractor of all discrepancies prior to the installation of the Exterior Insulation and Finish System with moisture drainage.
(Note to Specifier: Design and location of expansion joints in the Exterior Insulation and Finish System with moisture drainage is the responsibility of the project designer and as designated on contract drawings.)
11. Verify that expansion joints are installed:
 - a. Where expansion joints occur in the substrate system.
 - b. Where building expansion joints occur.
 - c. At floor lines in wood frame construction.
 - d. At floor lines of non-wood framed buildings where significant movement is expected.
 - e. Where the Exterior Insulation and Finish System with moisture drainage abuts dissimilar materials.
 - f. Where the substrate type changes.
 - g. Where prefabricated panels abut one another.
 - h. In continuous elevations at intervals not exceeding 75 ft (23 m).
 - i. Where significant structural movement occurs, such as changes in roof line, building shape or structural system.
(Note to Specifier: The use and location of vapor retarders within a wall assembly is the responsibility of the project designer and must comply with local building code requirements. Vapor retarders may be inappropriate in certain climates and can result in condensation within the wall assembly. The EIFS manufacturer will perform drawing and specification reviews including water vapor transmission analyses upon request and without charge.)

3.02 PREPARATION

- A. Protect the Exterior Insulation and Finish System with moisture drainage materials by permanent or temporary means from inclement weather and other sources of damage prior to, during, and following application until completely dry.
- B. Protect adjoining work and property during installation of the Exterior Insulation and Finish System with moisture drainage.
- C. Prepare the substrate to be free of foreign materials, such as oil, dust, dirt, form-release agents, efflorescence, paint, wax, water repellants, moisture, frost, and any other condition that may inhibit adhesion.

3.03 INSTALLATION

- A. Install the system in accordance with ASTM C1397 and the Dryvit Outsulation Plus MD System Application Instructions.
- B. Apply base coat sufficient to fully embed the reinforcing mesh. The recommended method is to apply the base coat in two (2) passes.
- C. Apply sealant only to base coat treated with Dryvit Demandit Smooth or Color Prime coatings.
- D. Install high impact reinforcing mesh as specified at ground level, high traffic areas and other areas exposed to or susceptible to impact damage as designated on contract drawings.

3.04 SITE QUALITY CONTROL

- A. Exterior Insulation and Finish System with moisture drainage manufacturer assumes no responsibility for on-site inspections or application of its products.
- B. EIFS sub-contractor to certify in writing the quality of work performed relative to the substrate system, details, installation procedures, and as to the specific products used.
- C. EPS supplier, if requested, to certify in writing that the EPS meets the Exterior Insulation and Finish System manufacturer's specifications.
- D. The sealant contractor, if requested, to certify in writing that the sealant application is in accordance with the sealant manufacturer's and the Exterior Insulation and Finish System manufacturer's recommendations.

3.05 CLEANING

- A. Remove all excess Exterior Insulation and Finish System materials from the job site by the contractor in accordance with contract provisions and as required by applicable law.
- B. Leave all surrounding areas, where the Exterior Insulation and Finish System with moisture drainage has been applied, free of debris and foreign substances resulting from the EIFS sub-contractor's work.

END OF SECTION 07 24 19

