



# TECHNICAL DATA SHEET

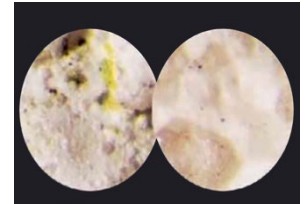
## PMR™ FINISHES

Proven Mildew Resistant finishes for  
Demanding Building Environments.

DS490

### PRODUCT DESCRIPTION

Dryvit Proven Mildew Resistant (PMR) finishes are designed to inhibit the growth of mildew in difficult mildew-prone environments. These 100% acrylic finishes incorporate state-of-the-art chemistry developed to help keep your building mildew free longer.



### BASIC USES

PMR finishes can be applied over properly prepared substrates such as Dryvit EIFS, exterior masonry, stucco, precast, cast-in-place concrete and other approved substrates. The finishes are also suitable for interior applications. All finishes can be trowel applied or spray applied with a hopper gun or pole gun-type sprayer.

### FEATURES & BENEFITS

#### FEATURE

- Single component
- Dry polymer modified
- Smooth consistency
- Vapor Permeable

#### BENEFIT

- Ready to use, just add water
- Excellent durability, adhesion
- Trowels easily thus more production
- Does not allow moisture buildup

### PROPERTIES

**Drying Time:** Drying of the finishes is dependent on the air temperature, relative humidity and finish thickness. Under average drying conditions [70 °F (21 °C), 55% R. H.], the finish will dry in 24 hours. Lower temperature and higher humidity will require that the PMR finish be protected for longer periods. Protect work from rain during the drying period.

### SURFACE PREPARATION

- Surface must be smooth and free of imperfections to ensure satisfactory appearance.
- Interior and exterior surfaces must be above 40 °F (4 °C) when applying finishes and must be clean, dry, structurally sound and free of efflorescence, grease, oil, form release agents and curing compounds.

**Dryvit Reinforced Base Coat:** The base coat must dry and have cured for a minimum of 24 hours before application of any finish.

**Concrete:** Shall be dry and have cured a minimum of 28 days prior to application of the finishes. If efflorescence, form release agents or curing compounds are present on the concrete surface, the surface shall be thoroughly cleaned with an appropriate commercial cleaner or method to remove any residue that will affect surface adhesion. Refer to ASTM D 4261, D 4260, D 4259, and D 4258 for various options. All projections shall be removed and small voids filled with Dryvit Primus®, Primus® DM, Genesis® or Genesis® DM mixture. Dryvit Color Prime™ shall be applied to the prepared concrete surface using a roller or brush (see product data sheet for mixing and application) prior to application of the finish.

**Masonry:** The masonry surface, with joints struck flush, shall be "skim coated" with Dryvit Primus, Primus DM, Genesis or Genesis DM mixture (see product data sheet for mixing and application) to produce a smooth, level surface.

**Stucco:** Dryvit Color Prime™, Color Prime W or Primer with Sand™ shall be applied over the cured brown coat surface using a roller or brush (see product data sheet for mixing and application) prior to applying the finish. If additives are present in the stucco, a test patch shall be made and bond strength checked prior to application.

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## MIXING

Some settling of the finish may occur during shipping. Thoroughly mix the finish with a “Twister” paddle or equivalent mixing blade powered by a 1/2 in (12.7 mm) drill, 450-500 rpm, until a uniform workable consistency is attained.

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## APPLICATION METHOD

**Quarzputz® PMR or Sandblast® PMR:** using a stainless-steel trowel, apply and level a coat of Quarzputz® PMR, Quarzputz® E PMR or Sandblast® PMR to a uniform thickness (Quarzputz® PMR: no thicker than largest aggregate; Sandblast® PMR: applied in a thickness of 3/64 in (1.2 mm) – approximately 1 1/2 times largest aggregate). The textures are achieved by uniform hand motion and/or type of tool used. Maintain a wet edge for uniformity of color and texture.

**Sandpebble® PMR and Sandpebble® Fine PMR:** roughly apply an even coat of finish to a thickness slightly thicker than the largest aggregate size. Then pull across the rough application coat using a horizontal trowel motion and develop a uniform thickness no greater than the largest aggregate of the material. The textures are achieved by uniform hand motion and/or type of tool used. Maintain a wet edge for uniformity of color and texture.

**Freestyle® PMR:** using a stainless-steel trowel, apply a coat of the Freestyle® PMR slightly thicker than 1/16 in (1.6 mm). The texture is either pulled out of this base or achieved by adding more Freestyle finish to the base layer using the same texturing motions that are used with other plaster materials, such as a skip trowel finish. The thickness of any Freestyle finish texture shall not exceed 1/4 in (6.4 mm).

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## COLORS

All finishes are available in standard colors as well as custom colors.

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## TEXTURE

All finishes achieve a texture which is governed by aggregate size as well as the trowel motion in finishing the wall. Quarzputz® produces an open-textured pattern in a regular or random style. Sandblast produces a sand-like texture. Sandpebble® produces a rough, pebbly texture, which is ideal for masking surface imperfections. Freestyle® allows almost any ornamental trowel texture to be achieved. Sandpebble® Fine produces a fine pebble texture.

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## PACKAGING

PMR finishes are shipped in 70 lbs pails.

PMR E finishes are shipped in 40 lbs pails.

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## COVERAGE

All coverages are approximate and depend upon substrate, details and individual application technique.

**Quarzputz® PMR:** approximately 140 ft<sup>2</sup> (13 m<sup>2</sup>) per pail. **WFT** 57.29 mils, **DFT** 40.7 mils. Vol Solids 71.08%

**Sandblast® PMR:** approximately 150 ft<sup>2</sup> (14 m<sup>2</sup>) per pail. **WFT** 53.47 mils, **DFT** 37.2 mils. Vol Solids 69.5%

**Freestyle® PMR:** Must be calculated based on the texture desired. However, a coating thickness of 1.6 mm (1/16 in) to 1/4 in (6.4 mm) must be maintained. **WFT** 63-252 mils, **DFT** 45.4-181.5 mils. Film thickness will vary depending on coating thickness. Vol Solids 72.04%

**Sandpebble® PMR:** approximately 130 ft<sup>2</sup> (12 m<sup>2</sup>) per pail. **WFT** 61.69 mils, **DFT** 44.9 mils. Vol Solids 72.71%

**Sandpebble® Fine PMR:** approximately 160 ft<sup>2</sup> (15 m<sup>2</sup>) per pail. **WFT** 50.13 mils, **DFT** 36.6 mils. Vol Solids 72.93%

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## STORAGE

- Finishes must be stored at a minimum 40 °F (4 °C) and a maximum 100 (4 °C) in tightly sealed containers protected from weather and out of direct sunlight.
- The shelf life is 2 years from date of manufacture when properly stored in unopened pails.

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## CAUTIONS & LIMITATIONS

- Avoid applying PMR finishes in direct sunlight. Always work on the shady side of the wall or protect the area with appropriate shading material.
- Dryvit finishes must not be used on exposed exterior horizontal surfaces. Minimum slope is 6 in12 which is 27°. Maximum length of slope is 12 in (305 mm).
- Dryvit finishes shall not be used below grade when applied as the finish for an EIF system.
- Dryvit finishes are not intended for direct-applied, vertical applications over exterior gypsum based sheathing board, foam plastic insulation or other type insulation board.
- Dryvit finishes shall not be returned into any sealant joint. Instead a coat of Dryvit Color Prime or Dryvit Demandit Smooth shall be applied over the base coat that will be in contact with the sealant

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## MAINTENANCE

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

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## CLEAN UP

Clean tools with water while the finishes are still wet.

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## TECHNICAL AND FIELD SERVICES

Available on request.

## TYPICAL PHYSICAL PROPERTIES

| TEST  | TEST METHOD  | CRITERIA   | RESULTS <sup>1</sup>  |
|---|--|--|---|
| Surface Burning Characteristics   | ASTM E 84  | ICC and ANSI/EIMA 99-A-2001<br>Flame Spread <25 Smoke<br>Developed <450                | Passed  |
| Flexibility <sup>2</sup>  | ASTM D 522 Method B  | No ICC or ANSI/EIMA Criteria   | Passed: 2.0" diameter @ 73 °F                                     |
| Water Vapor Transmission  | ASTM E 96 Procedure B  | ICC: Vapor Permeable<br>No ANSI/EIMA Criteria  | 35 Perms  |
| Accelerated Weathering  | ASTM G 154 Cycle 1 (QUV)                                       | ANSI/EIMA 99-A-2001 2000<br>hours: No deleterious effects <sup>3</sup>                 | 5000 hours: No deleterious effects <sup>3</sup>                   |
|   | ASTM G 155 Cycle 1 (Xenon Arc)                                 | ICC: 2000 hours:<br>No deleterious effects <sup>3</sup>                                | 5000 hours: No deleterious effects <sup>3</sup>                   |
| Chalk Rating  | ASTM D 4214 after ASTM G 154<br>Cycle 1                        | No ICC or ANSI/EIMA Criteria   | Chalk rating: 8 after 5000 hours QUV                              |
| Instrumentally Measured Color<br>Difference <sup>4</sup> (includes yellowing) | ASTM D 2244 CIELAB, 10° Ob-<br>server after ASTM G 154 Cycle 1 | No ICC or ANSI/EIMA Criteria   | Color change: 1.05 Delta E after 5000 hours<br>QUV                |
| Freeze-Thaw Resistance  | ASTM E 2485 (formerly EIMA<br>101.01)                          | ANSI/EIMA 99-A-2001 60<br>cycles: No deleterious effects <sup>3</sup>                  | 90 cycles: No deleterious effects <sup>3</sup>                    |
|   | ASTM E 2485 ICC – ES Proc.<br>(AC212)                          | ICC: 10 cycles<br>No deleterious effects <sup>3</sup>                                  | 10 cycles: No deleterious effects <sup>3</sup>                    |
| Mildew Resistance   | ASTM D 3273 (formerly Mil Std-<br>810B)                        | ANSI/EIMA 99-A-2001 28 days:<br>No growth  | 60 days: No growth  |
| Salt Spray Resistance   | ASTM B 117   | ICC and ANSI/EIMA 99-A-2001<br>300 hours: No deleterious<br>effects <sup>3</sup>       | 1000 hours: No deleterious effects <sup>3</sup>                   |
| Water Resistance  | ASTM D 2247  | ICC and ANSI/EIMA 99-A-2001<br>14 days: No deleterious<br>effects <sup>3</sup>         | 42 days: No deleterious effects <sup>3</sup>                      |
| Abrasion Resistance   | ASTM D 968 Method A Falling<br>Sand                            | ANSI/EIMA 99-A-2001 528<br>quarts (500 liters): No<br>deleterious effects <sup>3</sup> | 1057 quarts (1000 liters): No deleterious<br>effects <sup>3</sup> |
|   | ASTM D 4060 Taber Abrasion (1<br>kg load)                      | No ICC or ANSI/EIMA Criteria   | 1000 cycles: .91 mg loss  |
| Adhesion to Concrete  | ASTM D 4541  | ICC and ANSI/EIMA 99-A-2001<br>15 psi minimum  | >200 psi  |
| Tensile Bond  | ASTM C 297/E 2134 (formerly<br>EIMA 101.03)                    | ICC and ANSI/EIMA 99-A-2001<br>15 psi minimum  | >25 psi   |
| Algae Resistance  | SS 345:1990 (Appendix B)                                       | No ICC or ANSI/EIMA Criteria   | 8 weeks; No algae growth  |

1. Testing referenced is based on Quarzputz® Pastel Base finish.
2. Finish applied over aluminum panels, bent on cylindrical mandrels as described in ASTM D 522 Method B. Lower diameter indicates higher flexibility.
3. No cracking, checking, rusting, crazing, erosion, blistering, peeling, or delamination when viewed under 5x magnification.
4. Delta E is total color difference, including yellowing, lightening, darkening, changes in red, blue, and green color values. Finish exposed to 5,000 hours of QUV prior to evaluating Delta E.

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

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