

## Textured Acrylic Finishes for LP® ArmorStrand™ Panels

### Description

TAFS 3 consists of Dryvit AquaFlash® SS elastomeric joint membrane, Dryvit AquaFlash Mesh joint reinforcing fabric, Dryvit acrylic primer and Dryvit Finish.

### Uses

TAFS 3 is designed to be used as a joint preparation treatment and architectural finish applied over LP ArmorStrand panels for residential construction.

### Coverage

**Dryvit AquaFlash SS:** Coverage to embed AquaFlash Mesh is estimated at 260 lf/pail (79.3 m/pail). Yield can vary significantly depending on the joint width and application technique. Coverage should be verified in a sample area of the project using the same tools and methods proposed for the project.

**Color Prime:** Color Prime is provided in 5 gal (18.9 l) containers. Coverage is approximately 1500 sf/pail (140 sq m/pail) depending on surface texture and porosity, and application method.

**Finish:** Refer to the Dryvit product data sheet for the selected finish.

### Components

**Dryvit AquaFlash Mesh** - A reinforced fabric used to bridge all sheathing joints, inside and outside corners and is available in 4 in x 180 ft (102 mm x 54.9 m) rolls.

**Dryvit AquaFlash SS** - Is used to embed the AquaFlash Mesh at all sheathing joints, inside and outside corners. AquaFlash SS is supplied in 5 gal (18.9 l) pails.

**Dryvit Color Prime** - Pigmented acrylic primer used to improve adhesion and uniformity of finish color and is supplied in 5 gal (18.9 l) pails.

**Dryvit Finish** - Supplied in 5 gal (18.9 l) pails and shall be the type, color and texture as selected by the architect/owner, and shall be one or more of the following:

1. Standard DPR (Dirt Pickup Resistance): Water-based, acrylic coating with integral color and texture and formulated with DPR chemistry:
  - a. Quarzputz® DPR: Open-texture
  - b. Freestyle® DPR: Stucco texture
  - c. Sandpebble® DPR: Pebble texture
2. Hydrophobic (HDP™) Finishes: 100% acrylic coating with integral color and texture and formulated with hydrophobic properties: Quarzputz® HDP, Sandpebble® HDP
3. E: Water-based, lightweight acrylic coating with integral color and texture and formulated with DPR chemistry: Quarzputz® E, Sandpebble® E
4. Specialty: Factory mixed, water-based acrylic:
  - a. Ameristone™: Multi-colored quartz aggregate with a flamed granite appearance.
  - b. Stone Mist®: Ceramically colored quartz aggregate.
  - c. Custom Brick: Acrylic polymer-based finish used in conjunction with a proprietary template system to create the look of stone, brick, slate or tile.
  - d. TerraNeo: 100% acrylic-based finish with large mica chips and multi-colored quartz aggregates.
5. Elastomeric DPR (Dirt Pickup Resistance): Water-based, elastomeric acrylic coating with integral color and texture, and formulated with DPR chemistry: Weatherlastic® Quarzputz, Weatherlastic® Sandpebble, Weatherlastic®.
6. Medallion Series PMR™ (Proven Mildew Resistance): Water-based, acrylic coating with integral color and texture and formulated with PMR chemistry: Quarzputz® PMR, Freestyle® PMR, Sandpebble® PMR
7. Coatings and Sealers: Demandit® Smooth, Demandit Sanded, HDP™ Water-Repellent Coating, Weatherlastic® Smooth, Tuscan Glaze™, SealClear™ may only be applied over a Dryvit finish.

### Testing Information

For individual test data on this product's properties, refer to the chart included with this document.

### Application:

- The LP ArmorStrand panels shall be installed in strict accordance with the manufacturer's requirements.
- Gaps in the LP ArmorStrand must not exceed 1/4 in (6 mm).
- All surfaces must be clean, dry and free of any contaminants that may affect adhesion.
- The substrate surface shall be smooth, plumb and planar. Any surface imperfections must be corrected prior to application of TAFS 3 products.
- Air and surface temperature for application of the AquaFlash SS shall be minimum 50 °F (10 °C). Air and surface temperature for application of the Color Prime shall be minimum 40 °F (4 °C), and must remain so for a minimum of 24 hours. For finish application temperatures, refer to the specific literature for the Dryvit finish specified. Cool, humid conditions will result in slower evaporation and will require longer times.

**Dryvit AquaFlash SS:** After extended storage, some settling may occur. Using a stiff mixing blade, stir the product to a smooth uniform consistency. Using a minimum 4 in (102 mm) wide taping knife, apply AquaFlash SS material in the sheathing joint and a tight coat for a distance of 2 1/2 in (63.5 mm) along each side. Immediately lay a piece of 4 in (102 mm) AquaFlash Mesh into the wet material and trowel smooth.

Using a 12 in (305 mm) taping knife, apply additional AquaFlash SS material over the mesh and feather onto the adjacent wall surface. Ensure the mesh is completely embedded while avoiding excessive build. To minimize objectionable telegraphing of the joints, avoid build up of the joint treatment, using only as much material as necessary to cover the AquaFlash Mesh. Use a wide taping knife to smooth and feather the joint treatment onto the adjacent panel surface. AquaFlash SS should be applied in thin passes not exceeding 1/8 (3 mm) in thickness. Thicker layers will take longer to dry and may exhibit some sag or noticeable shrinkage that may telegraph through the finish.

- **Color Prime:** Allow the AquaFlash SS to dry minimum 24 hours 70 °F (21.1 °C), 50% RH). Cool temperatures and high RH will extend the drying time. Using a brush, roller or spray equipment, apply a coat of Color Prime over the entire wall surface.
- **Finish:** Allow the Color Prime to dry and apply the finish in accordance with procedures described in the product data sheet for the specific Dryvit finish selected.
- Install all sealants, flashings and other components as required to complete the weather tight building enclosure.

**Storage:** Materials shall be stored at a minimum of 40 °F (4 °C) and a maximum of 100 °F (4 °C) in tightly sealed containers protected from weather and out of direct sunlight.

**Clean up:** Clean tools with warm water and detergent while still wet.

**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.

**Cautions and Limitation:**

- Avoid applying materials in direct sunlight. Always work on the shady side of the wall or protect the area with appropriate shading material.
- Framing and substrate must be installed so that the resulting sheathing surface is smooth, planar and plumb. The coatings are not designed for high build applications and cannot be used to correct substrate deficiencies or irregularities. All substrate irregularities shall be corrected before application of the TAFS 3 products.
- Care must be exercised to detail and install all building components to prevent water from entering the building envelope. Water entering behind the coatings may have detrimental effects on the coating products as well as other building components.
- Dryvit TAFS 3 products are water based and therefore rely on evaporation to dry and also achieve proper film formation. It is important that temperature limitations be strictly followed and cooler, high humidity conditions will require and extended dry times. Do not apply products when temperatures are less than 5 °F (2.7 °C) above the dew point.

- Walls viewed under critical light conditions will greatly exaggerate any surface irregularity. It should be noted that the TAFS 3 materials are hand applied products and some surface irregularities as well as panel joints may be visible under certain lighting and view angle conditions. Some visual irregularities should be expected and not considered a material or application defect. It is strongly recommended that an area of the wall be identified as a mock up and used as a basis to establish level of acceptance.
- Dryvit finishes must not be used on exposed exterior horizontal surfaces. Minimum required slope is 6 in 12 (27°). Maximum length of slope is 12 in (305 mm).

**Limited Materials Warranty:**

Dryvit Systems, Inc. shall provide a written limited materials warranty against defective materials, upon written request. Dryvit shall make no other warranties, expressed or implied. Dryvit is not liable for incidental or consequential damages. Dryvit does not warrant workmanship. Dryvit shall not be responsible for workmanship associated with the installation of the Dryvit TAFS 3 materials.

**Technical and Field Services:**

Available on request

Finish Testing			
Test	Test Method	Criteria	Results <sup>1</sup>
Surface Burning Characteristics	ASTM E 84	Flame Spread <25 Smoke Developed <450	Passed
Flexibility <sup>2</sup>	ASTM D 522 Method B	N/A	Passed: 1.5" diameter @ 73 °F
Water Vapor Transmission	ASTM E 96 Procedure B	N/A	40 Perms
Accelerated Weathering	ASTM G 154 Cycle 1 (QUV)	2000 hours: No deleterious effects <sup>3</sup>	5000 hours: No deleterious effects <sup>3</sup>
	ASTM G 155 Cycle 1 (Xenon Arc)	2000 hours: No deleterious effects <sup>3</sup>	2000 hours: No deleterious effects <sup>3</sup>
Chalk Rating	ASTM D 4214 after ASTM G 154 Cycle 1	N/A	Chalk rating: 9+ after 5000 hours QUV
Instrumentally Measured Color Difference <sup>4</sup> (includes yellowing)	ASTM D 2244 CIELAB, 10° Observer after ASTM G 154 Cycle 1	N/A	Color change: 0.51 Delta E after 5000 hours QUV
Freeze-Thaw Resistance	ASTM E 2485	60 cycles: No deleterious effects <sup>3</sup>	90 cycles: No deleterious effects <sup>3</sup>
	ASTM E 2485	10 cycles No deleterious effect <sup>3</sup>	10 cycles: No deleterious effects <sup>3</sup>
Mildew Resistance	ASTM D 3273	28 days: No growth	60 days: No growth
Salt Spray Resistance	ASTM B 117	300 hours: No deleterious effects <sup>3</sup>	1000 hours: No deleterious effects <sup>3</sup>
Water Resistance	ASTM D 2247	14 days: No deleterious effects <sup>3</sup>	42 days: No deleterious effects <sup>3</sup>
Abrasion Resistance	ASTM D 968 Method A Falling Sand	528 quarts (500 liters): No deleterious effects <sup>3</sup>	1057 quarts (1000 liters): No deleterious effects <sup>3</sup>
	ASTM D 4060 Taber Abrasion (1 kg load)	N/A	1000 cycles: .83 mg mass loss
Adhesion to Concrete	ASTM D 4541	15 psi minimum	>200 psi
Tensile Bond	ASTM C 297/E 2134	15 psi minimum	>25 psi

1. Testing referenced is based on Quarzputz Pastel Base.  
 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.

AquaFlash® SS Testing			
Test	Test Method	Criteria	Results <sup>1</sup>
Freeze-Thaw Resistance	ASTM E 2485	N/A	No deleterious effects
Adhesion	ASTM D 4541	N/A	142 psi
% Solids by Volume	ASTM D 5201	N/A	66 %
Tensile Bond	ASTM D 412	N/A	325 psi (224 MPa)
Elongation	ASTM D 412	N/A	200 %

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