DPR FINISHES

DSC416

“Original” aggregate textured 100% acrylic-based dirt pickup resistance finishes

Description

Quarzputz®, Sandblast®, Freestyle®, Sandpebble®, and Sandpebble® Fine finishes are premixed 100% acrylic-based coatings which are offered in standard colours as well as custom colours. They provide the finishing touch that adds lasting colour and texture to exterior and interior walls. These are the original five finish textures with DPR (dirt pick-up resistant) chemistry that will remain clean longer after application.

Uses

DPR finishes are durable architectural finishes providing surface colour and texture for Dryvit systems. These finishes can also be applied over properly prepared substrates such as exterior masonry, stucco, precast or 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.

Coverage

All coverages are approximate and depend upon substrate, details and individual application technique. The finishes are shipped in 32 kg (70 lb.) pails.
Quarzputz: approximately 13 m^2 (140 ft^2) per pail.
Sandblast: approximately 14 m^2 (150 ft^2) per pail.
Freestyle: Must be calculated based on the texture desired. However, a coating thickness of 1.6 mm (1/16 in) to 6.4 mm (1/4 in) must be maintained.
Sandpebble: approximately 12 m^2 (130 ft^2) per pail.
Sandpebble Fine: approximately 15 m^2 (160 ft^2) per pail.

Texture

Quarzputz, Sandblast, Sandpebble and Sandpebble Fine 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.

Properties

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

Testing Information

DPR finishes meet all the requirements of CAN/ULC-S716.1 for finishes. Additional test data on this product's properties can be found in the Table included in this document.

Application Procedure

Job Conditions - Air and surface temperature for application of finishes must be 4 °C (40 °F) or higher and must remain so for a minimum of 24 hours.

Temporary Protection - Shall be provided at all times until the DPR finish is dry, and installation of permanent flashings, sealants, etc. are completed to protect the wall from inclement weather and other sources of damage.

Surface Preparation

- Surface must be smooth and free of imperfections to ensure satisfactory appearance.
- Interior or exterior surfaces must be above 4 °C (40 °F) 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 cure for a minimum of 24 hours before application of any finish.
- **Concrete:** Shall 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 washed with muriatic acid and flushed to remove residual acid. All projections shall be removed and small voids filled with Dryvit Primus®, Primus® DM, Genesis® or Genesis® DM mixture (see product data sheets for mixing and application). Dryvit ColorPrime™ 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 Primus, Primus DM, Genesis or Genesis DM mixture (see product data sheets for mixing and application) to produce a smooth, level surface.
- **Stucco:** Shall be dry and have cured a minimum of 7 days. Dryvit ColorPrime, ColorPrime 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.

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 12.7 mm (1/2 in) drill, 450-500 rpm, until a uniform workable consistency is attained.

Application -

- **Quarzputz or Sandblast:** using a stainless-steel trowel, apply and level a coat of Quarzputz or Sandblast to a uniform thickness (Quarzputz- no thicker than the largest aggregate; Sandblast - applied in a thickness of 1.2 mm (3/64 in) – approximately 1 1/2 times the largest aggregate). The textures are achieved by uniform hand motion and/or type of tool used. Maintain wet edge for uniformity of colour and texture.
- **Sandpebble or Sandpebble Fine:** 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 wet edge for uniformity of colour and texture.
- **Freestyle:** using a stainless-steel trowel, apply a coat of the Freestyle slightly thicker than 1.6 mm (1/16 in). 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 6.4 mm (1/4 in).

Clean Up - Clean tools with water while the finishes are 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.

Storage

Finishes must be stored at a minimum of 4 °C (40 °F) and a maximum of 38 °C (100 °F) in tightly sealed containers out of direct sunlight.

Cautions and Limitations

- Dryvit finishes must not be used on exposed exterior horizontal surfaces. Minimum slope is 6 in 12 which is 27°. Maximum length of slope is 305 mm (12 in).
- 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 type 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 ColorPrime or Dryvit Demandit® should be applied over the base coat in the joint.
- Minimize exposure of materials to temperatures over 32 °C (90 °F).
- Finishes exposed to temperatures over 43 °C (110 °F) for even short periods may exhibit skinning, increased viscosity, and should be inspected prior to use

Technical and Field Services

Available on request.

DPR Finish Testing			
Test	**Test Method**	**Criteria**	**Results[1]**
Surface Burning Characteristics	ASTM E 84	ICC and ANSI/EIMA 99-A-2001 Flame Spread <25 Smoke Developed <450	Passed
Flexibility[2]	ASTM D 522 Method B	No ICC or ANSI/EIMA Criteria	Passed: 1.5" diameter @ 73°
Water Vapor Transmission	ASTM E 96 Procedure B	ICC: Vapor Permeable No ANSI/EIMA Criteria	40 Perms
Accelerated Weathering	ASTM G 154 Cycle 1 (QUV)	ANSI/EIMA 99-A-2001 2000 hours: No deleterious effects[3]	5000 hours: No deleterious effects[3]
	ASTM G 155 Cycle 1 (Xenon Arc)	ICC: 2000 hours: No deleterious effects[3]	2000 hours: No deleterious effects[3]
Chalk Rating	ASTM D 4214 after ASTM G 154 Cycle 1	No ICC or ANSI/EIMA Criteria	Chalk rating: 9+ after 5000 hours QUV
Instrumentally Measured Colour Difference[4] (includes yellowing)	ASTM D 2244 CIELAB, 10° Observer after ASTM G 154 Cycle 1	No ICC or ANSI/EIMA Criteria	Colour change: 0.51 Delta E after 5000 hours QUV
Freeze-Thaw Resistance	ASTM E 2485 (formerly EIMA 101.01)	ANSI/EIMA 99-A-2001 60 cycles: No deleterious effects[3]	90 cycles: No deleterious effects[3]
	ASTM E 2485 ICC – ES Proc. (AC212)	ICC: 10 cycles No deleterious effects[3]	10 cycles: No deleterious effects[3]
Mildew Resistance	ASTM D 3273	ANSI/EIMA 99-A-2001 28 days: No growth	60 days: No growth
Salt Spray Resistance	ASTM B 117	ICC and ANSI/EIMA 99-A-2001 300 hours: No deleterious effects[3]	1000 hours: No deleterious effects[3]
Water Resistance	ASTM D 2247	ICC and ANSI/EIMA 99-A-2001 14 days: No deleterious effects[3]	42 days: No deleterious effects[3]
Abrasion Resistance	ASTM D 968 Method A Falling Sand	ANSI/EIMA 99-A-2001 500 liters (528 quarts): No deleterious effects[3]	1000 liters (1057 quartz): No deleterious effects[3]
	ASTM D 4060 Taber Abrasion (1 kg load)	No ICC or ANSI/EIMA Criteria	1000 cycles: .83 mg mass loss
Adhesion to Concrete	ASTM D 4541	ICC and ANSI/EIMA 99-A-2001: 15 psi minimum	>200 psi
Tensile Bond	ASTM C 297/E 2134 (formerly EIMA 101.03)	ICC and ANSI/EIMA 99-A-2201: 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 colour difference, including yellowing, lightening, darkening, changes in red, blue, and green colour values. Finish exposed to 5,000 hours or QUV prior to evaluating Delta E.

Dryvit Systems Canada
129 Ringwood Drive
Stouffville, ON L4A 8C1
(800) 263-3308
www.dryvit.ca
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