

Textured 100% Acrylic Finishes With Hydrophobic Properties

Description

HDP finishes are premixed 100% acrylic-based finishes which are offered in six textures (Quarzputz® HDP, Sandblast® HDP, Sandpebble® HDP, Sandpebble® Fine HDP, Limestone™ HDP and Finesse™ HDP). Standard colors as well as custom colors are available. HDP finishes are hydrophobic; they repel water, resulting in less dirt pick up and a cleaner wall appearance.

Uses

HDP finishes are durable architectural finishes providing surface color 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 acceptable substrates.

Coverage

All coverages are approximate and depend upon substrate, details and individual application technique. The finishes are shipped in 70 lb (32 kg) pails.

Quarzputz HDP: approximately 140 ft² (13 m²) per pail.

Sandblast HDP: approximately 150 ft² (14 m²) per pail.

Sandpebble HDP: approximately 130 ft² (12 m²) per pail.

Sandpebble Fine HDP: approximately 160 ft² (15 m²) per pail.

Limestone HDP: approximately 150 ft² (14 m²) per pail.

Finesse HDP: approximately 105 ft² (9.8 m²) per pail.

Texture

HDP finishes achieve a texture which is governed by aggregate size as well as the trowel motion in finishing the wall.

Quarzputz HDP produces an open-textured pattern in a regular or random style.

Sandblast HDP produces a sand-like texture.

Sandpebble HDP produces a rough, pebbly texture, which is ideal for masking surface imperfections.

Sandpebble Fine HDP produces a fine pebble texture.

Limestone HDP replicates the appearance of limestone blocks.

Finesse HDP produces a smooth appearance resembling pre-cast.

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 HDP finish will dry in 24 hours. Lower temperature and higher humidity will require that the HDP finish be protected for longer periods. Protect work from rain during the drying period.

Beading Effect – The beading effect occurs after approximately 30 days of weathering. This effect is more easily seen on finer finishes.

Testing Information

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

Application Procedure

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



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

Surface Preparation

- Wall surface must be smooth and free of imperfections to ensure satisfactory finish appearance.
- Interior or exterior surfaces must be above 40 °F (4 °C) 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 be 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 Color Prime™ shall be applied to the prepared concrete surface (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:** Dryvit Color Prime, Color Prime W™ or Primer with Sand™ shall be applied over the cured brown coat surface (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 1/2 in (12.7 mm) drill, 450-500 rpm, until a uniform workable consistency is attained. A small amount of clean potable water may be added to adjust workability. Always add the same amount of water to each pail to avoid color variation.

Application

Quarzputz HDP or Sandblast HDP: using a stainless steel trowel, apply and level a coat of Quarzputz HDP or Sandblast HDP to a uniform thickness (Quarzputz HDP – no thicker than the largest aggregate; Sandblast HDP – applied in a thickness of 3/64 in (1.2 mm) – approximately 1 1/2 times the largest aggregate).

Sandpebble HDP and Sandpebble Fine HDP: 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 color and texture.

Limestone HDP: using a stainless steel trowel, apply and level a coat of Limestone HDP finish to a uniform 'tight' thickness. Allow this first coat to become dry to the touch. Apply a second coat similar to the first. Float the finish lightly with a Lexan plastic float. After the finish has taken up slightly, trowel again with either a stainless steel trowel or Lexan plastic float. **Important:** Use the same final trowelling tool and hand motion over the entire wall.

Finesse HDP: apply a coat of color coordinated Color Prime™ and allow to dry. Using a stainless steel trowel, apply a uniform coat of Finesse HDP finish to a smooth, uniform thickness approximately 1/16 in (1.6 mm). Allow the finish to take up for approximately 10 - 12 minutes. Lightly mist the surface of the Finesse finish and trowel smooth to remove any imperfections and trowel marks and densify the surface. As an alternate, the first layer can be allowed to dry completely for a minimum of 24 hours and then sanded using 100 grit paper or disks to remove any imperfections and trowel marks. Allow to dry and apply a second coat in a similar manner as the first. Do not sand the final coat as burn marks may result.

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 40 °F (4 °C) and a maximum of 100 °F (38 °C) in tightly sealed containers protected from weather and out of direct sunlight.

Cautions and Limitations

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

Technical and Field Services

Available on request.

Testing:

HDP Finish Testing			
Test	Test Method	Criteria	Results
Surface Burning Characteristics	ASTM E 84	All components shall have a: Flame Spread <25 Smoke Developed <450	Passed
Water Vapor Transmission	ASTM E 96 Procedure B	Vapor Permeable	46 Perms
Accelerated Weathering	ASTM G 155 – Cycle 1 (Xenon Arc)	ICC: 2000 hours: No deleterious effects ¹	2000 hours: No deleterious effects ¹
Freeze-Thaw Resistance	ASTM E 2485-06	AC219: 10 cycles: No deleterious effects ¹	No deleterious effects ¹ after 10 cycles
Mildew Resistance	ASTM D 3273	No growth during 28 day exposure period	>28 days: No growth
Salt Spray Resistance	ASTM B 117	300 hours: No deleterious effects ¹	No deleterious effects ¹ after 300 hours
Tensile Bond	ASTM C 297/E 2134	15 psi minimum	>18.6 psi
Water Resistance	ASTM D2247	ICC and ANSI/EIMA 99-A-2001 14 days: No deleterious effects ¹	42 days: No deleterious effects ¹
Abrasion Resistance	ASTM D968 Method A Falling Sand	ANSI/EIMA 99-A-2001 528 quarts (500 liters): No deleterious effects ¹	1057 quarts (1000 liters): No deleterious effects ¹
	ASTM D4060 Taber Abrasion (1 kg load)	No ICC or ANSI/EIMA criteria	1000 cycles: 107 mg mass loss
VOC (g/l)			<50 g/l
1. No cracking, checking, rusting, crazing, erosion, blistering, peeling, or delamination when viewed under 5x magnification.			

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