

HDP™ Water-Repellent Coating

Exterior Acrylic Coating with Hydrophobic Properties

DSC832

Description

HDP Water-Repellent Coating is 100% acrylic, has excellent water repellent properties and is available in standard colors as well as custom colors. HDP Water-Repellent Coating is formulated to resist mould and mildew growth (PMR) and is hydrophobic, resulting in less dirt pick up and a cleaner wall appearance.

Uses

HDP Water-Repellent Coating is used to coat acrylic based textured finishes, masonry, stucco, wood, or primed metal.

Coverage

HDP Water-Repellent Coating is shipped in 25 kg (55 lb) pails. Coverage will vary depending upon substrate, surface texture, environmental conditions and application technique. The coverage of the first coat on textured surfaces can vary from 33-74 m² (350-800 ft²) per pail depending upon conditions. The coverage of the second coat on textured surfaces can vary between 42-93 m² (450-1000 ft²) per pail because the surface becomes more sealed and smoother. For best uniformity of appearance two coats are recommended. Coverage for two coats of HDP Water-Repellent Coating can vary from 19-42 m² (200 - 450 ft²) per pail depending upon surface being coated. Coverage will be higher on smooth, primed surfaces. A test section is recommended to determine a more accurate coverage rate.

Properties

Drying Time – Drying time of HDP Water-Repellent Coating is dependent on the air temperature and relative humidity. At 21 °C (70 °F), 55% R.H., HDP Water-Repellent Coating is dry to the touch in 1/2 hour and dry to handle or recoat in 2 hours. Always protect work from rain for at least 24 hours.

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 HDP Water-Repellent Coating must be 45 °F (7 °C) or higher and must remain so for at least 12 hours.

Surface Preparation - Surfaces shall be clean, dry, above 7 °C (45 °F) and free of efflorescence, grease, oil, form release agents and curing compounds. On previously coated surfaces, all loose coating and gloss must be removed by sanding.

Metal Surfaces: Must be primed with a corrosion resistant primer.

Dryvit Finishes: Freshly applied finishes must dry a minimum of 24 hrs under average drying conditions. Existing Dryvit finishes should be cleaned prior to coating. See DSC152 for recommended procedures.

Concrete and Masonry: Shall have cured a minimum of 28 days prior to application of HDP Water-Repellent Coating. If 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, joints struck flush, and small voids filled with Genesis® DM™ base coat (DSC452). Dryvit Color Prime™ (DSC410) shall be applied over the prepared surface prior to applying the HDP Water-Repellent Coating.

Stucco: Dryvit Color Prime shall be applied over the texture coat prior to applying the HDP Water-Repellent Coating. If additives are present in the stucco, a test patch shall be made and bond strength checked prior to application.



Mixing: – Stir HDP Water-Repellent Coating to a smooth, homogeneous consistency. Avoid introducing air into the product.

Application: – Application should be performed by an experienced, professional contractor who has experience coating masonry or EIFS. HDP Water-Repellent Coating may be applied by brush, roller or airless spray equipment. When applying by roller, an 457 mm (18 in) wide roller frame with 57 mm (2 1/4 in) inside diameter, and a maximum 19 mm (3/4 in) nap is recommended. Apply HDP Water-Repellent Coating in one continuous coat, maintaining a wet edge as the application proceeds to a natural break. For 'cutting in', a 102 mm (4 in) wide roller is recommended, and HDP Water-Repellent Coating may be thinned with a small amount of water to prevent excessive build-up.

Application Tips: Surface texture, temperature, and porosity will affect the rate at which any coating dries, and color variation may occur if such conditions are not uniform. For this reason, two coats are always recommended to achieve maximum uniformity. It may be helpful to lightly mist (surface should NOT be dripping wet or fully saturated, however) the wall in hot, dry weather in order to slow the drying rate of the HDP Water-Repellent Coating.

Clean Up – Clean tools with water while HDP Water-Repellent Coating is 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 DSC152 on cleaning and recoating.

Testing:

Storage: – HDP Water-Repellent Coating must be stored at minimum of 7 °C (45 °F) and a maximum of 38 °C (100 °F) in tightly sealed containers protected from weather and out of direct sunlight.

Cautions and Limitations:
Do not use as a finish coat directly over any Dryvit Outsulation® base coat. Avoid applying finish in direct sunlight. Always work on the shady side of the wall or protect the area with appropriate shading material.

Technical and Field Services
Available on request.

HDP Water-Repellent Coating Testing			
Test	Test Method	Criteria	Results
Mildew Resistance	ASTM D 3273	No growth	60 days: No growth
Accelerated Weathering	ASTM G 155 Cycle 1 Xenon Arc	2000 hours: No deleterious effects ¹	No deleterious effects after 2000 hours
Water Vapor Transmission	ASTM E 96 Procedure B	Vapor Permeable	46 Perms
Tensile Strength	ASTM D 412-06	N/A	2861.3 kPa (415 psi)
Adhesion to Concrete	ASTM D 4541	N/A	2102.9 kPa (305 psi)
VOC (g/l)	Regulatory	Meets South Coast Air Quality Management District (SCAQMD) Requirements	<100 g/l
Volume Solids	Calculated	N/A	40.5 %
Weight Solids	Calculated	N/A	54 %
Weight/gallon	Calculated	N/A	1.43 kg/L (11.9 lb/gallon)
1. No cracking, checking, rusting, crazing, erosion, blistering, peeling, or delamination when viewed under 5x magnification.			

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