



TECHNICAL DATA SHEET

LYMESTONE™ FINISH

100% Acrylic-Based Finish with the
Appearance of Limestone Blocks
DS472

PRODUCT DESCRIPTION

Limestone finish is a premixed 100% acrylic based coating and is offered in standard colors as well as custom colors. Limestone finish is designed to replicate the appearance of limestone blocks. Limestone provides the finishing touch that adds lasting color and texture to exterior and interior walls. Limestone finish with DPR (dirt pickup resistant) chemistry will remain cleaner longer after application.



BASIC USES

Limestone finish is a durable architectural finish, which provides surface color and texture for Dryvit systems. It is also suitable for interior applications. Limestone can also be applied over properly prepared substrates such as masonry, stucco, precast or cast-in-place concrete and other approved substrates. Limestone finish is trowel applied.

FEATURES & BENEFITS

FEATURE

- Realistic cut stone aesthetic
- Lightweight
- DPR & PMR chemistry
- Vapor permeable

BENEFIT

- Inexpensively emulates cut stone
- Reduces structural demands for exterior façade
- Resistant to dirt and the growth of mold and mildew
- Will not trap moisture vapor

PROPERTIES

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

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

Job Conditions: Air and surface temperature for application of Limestone finish must be between 40 °F (4 °C) and 100 °F (38 °C). The temperature after application must remain above 40 °F (4 °C) for a minimum of 24 hours.

Temporary Protection: Shall be provided at all times until the Limestone finish is dry, and 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 and 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 allowed to dry and cure for a minimum of 24 hours before application of the Limestone finish. The Dryvit reinforced base coat surface must be smooth and free of trowel marks.
- **Concrete:** Shall have cured a minimum of 28 days prior to application of the Limestone finish. 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 sheet for mixing and application). 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 Limestone 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 Limestone finish. If additives are present in the stucco, a test patch shall be made and bond strength checked prior to application.

MIXING

Mix Limestone finish with a "Twister" paddle or equivalent mixing blade, powered by a 1/2 in (12.7 mm) drill, at 450 - 500 rpm until a uniform workable consistency is attained.

APPLICATION

Using a stainless-steel trowel, apply and level a coat of Limestone 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.

- It is recommended that either aesthetic or expansion joints be located so as to create a maximum panel size of 10 ft x 10 ft (3.05 m x 3.05 m) [or 100 ft² (9.29 m²) with the vertical height not being more than 10 ft (3.05 m)] and that a contractor prepare a mock-up for approval by the architect prior to final specification.

COVERAGE

Limestone finish is shipped in 70 lb (32 kg) pails. Approximate coverage is 150 ft² (14 m²) per pail depending upon substrate, details and individual application technique.

STORAGE

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

The shelf life is 2 years from date of manufacture when properly stored in unopened pails.

TEXTURE

Limestone finish is designed to replicate the appearance of limestone blocks. The finish will have large flat areas with interspersed small pit marks and, depending upon final trowelling, could have burn marks to replicate weathered limestone. Application technique must be constant over an expanse of wall so that the general color, texture and gloss do not vary when viewed at a distance. Any variance noted is intended.

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.

CLEAN UP

Clean tools with water while the Limestone finish is still wet.

CAUTIONS & LIMITATIONS

- Avoid applying Limestone finish in direct sunlight. Always work on the shady side of the wall or protect the area with appropriate shading material.
- Limestone finish 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).
- Limestone finish shall not be used below grade when applied as the finish for an EIF system.
- Limestone finish is not intended for direct-applied, exterior vertical applications over exterior gypsum based sheathing board, foam plastic insulation or other type insulation board.
- Limestone finish shall not be returned into any sealant joint. Instead a coat of Dryvit Color Prime or Dryvit Demandit® Smooth should be applied over the base coat in the joint.

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- A site mock-up of sufficient size [min. 8 x 8 ft (2.4 x 2.4 m)] is strongly recommended for final approval. The final finished look will not be completely uniform in color or texture, thus simulating natural stone. It is recommended that experienced plasterers familiar with ultra-smooth or interior slick finishes be used for application.

TECHNICAL AND FIELD SERVICES

Available on request.

LYMESTONE™ FINISH TESTING			
TEST	TEST METHOD	CRITERIA	RESULTS
Surface Burning Characteristics	ASTM E 84	ICC and ANSI/EIMA 99-A-2001 Flame Spread <25 Smoke Developed <450	Passed
Flexibility ¹	ASTM D 522 Method B	No ICC or ANSI/EIMA Criteria	Passed: 3.0" diameter @ 73 °F
Water Vapor Transmission	ASTM E 96 Procedure B	ICC: Vapor Permeable No ANSI/EIMA Criteria	13 Perms
Accelerated Weathering	ASTM G 154 Cycle 1 (QUV)	ANSI/EIMA 99-A-2001	13 Perms
Freeze-Thaw Resistance	ASTM G 155 Cycle 1 (Xenon Arc)	2000 hours: No deleterious effects ²	3500 hours: No deleterious effects ²
	ASTM E 2485 (Formerly EIMA 101.01)	ANSI/EIMA 99-A-2001 60 cycles: No deleterious effects ²	90 cycles: No deleterious effects ²
	ASTM E 2485 ICC – ES Proc. (AC212)	ICC: 10 cycles: No deleterious effects ²	10 cycles: No deleterious effects ²
Mildew Resistance	ASTM D 3273	ANSI/EIMA 99-A-2001 28 days: No growth	28 days: No growth
Salt Spray Resistance	ASTM B 117	ICC and ANSI/EIMA 99-A-2001 300 hours: No deleterious effects ²	ANSI/EIMA 99-A-2001
Water Resistance	ASTM D 2247	ICC and ANSI/EIMA 99-A-2001 14 days: No deleterious effects ²	42 days: No deleterious effects ²
Abrasion Resistance	ASTM D 968 Method A Falling Sand	ANSI/EIMA 99-A-2001 528 quarts (500 liters): No deleterious effects ²	528 quarts (500 liters): No deleterious effects ²
	ASTM D 4060 Taber Abrasion (1 kg load)	No ICC or ANSI/EIMA Criteria	1000 cycles: 0.086 g weight 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-2001: 15 psi minimum	25 psi

1. Finish applied over aluminum panels, bent on cylindrical mandrels as described in ASTM D 522 Method B. Lower diameter indicates higher flexibility.
2. No cracking, checking, rusting, crazing, erosion, blistering, peeling, or delamination when viewed under 5x magnification.

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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