Lymestone™ Finish DS472

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

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

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

Coverage
Lymestone finish is shipped in 70 lb (32 kg) pails. Approximate coverage is 150 ft^2 (14 m^2) per pail depending upon substrate, details and individual application technique.

Texture
Lymestone 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.

Properties
Drying Time – Drying of the Lymestone finish is dependent on the air temperature, relative humidity and finish thickness. Under average drying conditions [70 °F (21 °C), 55% R.H.], Lymestone will dry in 24 hours. Lower temperature and higher humidity will require that the Lymestone 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.

Application Procedure
Job Conditions - Air and surface temperature for application of Lymestone finish must be between 50 °F (10 °C) and 90 °F (32 °C). The temperature after application must remain above 50 °F (10 °C) for a minimum of 24 hours.

Temporary Protection – Shall be provided at all times until the Lymestone 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 50 °F (10 °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 Lymestone 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 Lymestone 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 Lymestone 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 Lymestone finish. If additives are present in the stucco, a test patch shall be made and bond strength checked prior to application.

Mixing – Mix Lymestone 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 Lymestone 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.

Clean Up – Clean tools with water while the Lymestone finish 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 DS152 on cleaning and recoating.

Storage
Lymestone finish must be stored at a minimum of 50 °F (10 °C) and a maximum of 100 °F (38 °C) in tightly sealed containers out of direct sunlight.

Cautions and Limitations

- Avoid applying Lymestone finish in direct sunlight. Always work on the shady side of the wall or protect the area with appropriate shading material.
- Lymestone 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).
- Lymestone finish shall not be used below grade when applied as the finish for an EIF system.
- Lymestone finish is not intended for direct-applied, exterior vertical applications over exterior gypsum based sheathing board, foam plastic insulation or other type insulation board.
- Lymestone 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.
- A site mock-up of sufficient size [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 2000 hours: No deleterious effects[2]	3500 hours: No deleterious effects[2]
	ASTM G 155 Cycle 1 (Xenon Arc)	ICC: 2000 hours: No deleterious effects[2]	5000 hours: No deleterious effects[2]
Freeze-Thaw Resistance	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]	1000 hours: No deleterious effects[2]
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.

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