

Description

Quarzputz® E, Sandpebble™ E and Sandpebble™ Fine E™ finishes are lightweight, premixed 100% acrylic-based coatings, which are offered in standard colours as well as custom colours in Dryvit's Pastel and Mid-base formulations. Packaged in pails weighing nearly half the weight of standard finishes, the E finishes allow for far greater ease of application at the same coverage rates and the same high performance as all Dryvit finishes. They are more flexible than standard acrylic finishes.

Uses

E finishes are durable and provide surface colour and texture for Dryvit systems. These finishes can also be applied over other properly prepared substrates such as exterior masonry, stucco, precast or cast-in-place concrete. 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 18 kg (40 lb) pails.
Quarzputz E: approximately 11 m² (120 ft²) per pail.
Sandpebble E: approximately 12 m² (130 ft²) per pail.
Sandpebble Fine E: approximately 15 m² (160 ft²) per pail.

Texture

E finishes achieve a texture, which is governed by aggregate size as well as the trowel motion in finishing the wall. Quarzputz E produces a rilled pattern in a regular or random style. Sandpebble E produces a rough, pebbly texture, which is ideal for covering surface imperfections. Sandpebble Fine E produces a fine pebble texture.

Properties

Drying Time – Drying of the finishes is dependent on the air

temperature, relative humidity and coating thickness. Under average drying conditions [21 °C (70 °F), 55% R.H.], E finishes will dry in 24 hours. Lower temperature and higher humidity will require that the E 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 E 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 E 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 E finish.
- **Concrete:** Shall have cured a minimum of 28 days prior to application of the E 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™, Color Prime W™ or Primer with

Sand™ shall be applied to the prepared concrete surface using a roller or brush (see product data sheets for mixing and application) prior to applying the E 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 using a roller or brush (see product data sheets for mixing and application) prior to applying the E 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 E finish may occur during shipping. Thoroughly mix the E finish with a "Twister" paddle or equivalent mixing blade powered by a 12.7 mm (½ in) drill, 450-500 rpm, until a uniform workable consistency is attained. It should not be necessary to add water. If a looser workability is desired after mixing, add no more than 59 ml (2 oz) of water per pail of any E finish.

Application – Using a stainless steel trowel, apply and level a coat of Quarzputz E to a uniform thickness, no thicker than largest aggregate. For Sandpebble E or Sandpebble Fine E, roughly apply an even coat to a thickness slightly thicker than the largest aggregate size. Using a stainless steel or plastic float, lightly float the finish to a uniform appearance. Best results are achieved using less pressure when troweling and floating than with standard full weight finishes.

Note: With Quarzputz E, it is even more critical to use a light touch when troweling and floating the material in order to produce a uniform rilled texture. Allow a little extra time for the

material to take up before floating

Clean Up - Clean tools with water while the E 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

E finishes must be stored at a minimum of 4 °C (40 °F) and maximum of 38 °C (100 °F) in tightly sealed containers out of

direct sunlight. In warm storage conditions, the bucket lid may bulge slightly. This is due to thermal expansion of air within the finish and is not harmful to the finish or the pails.

Cautions and Limitations

- E 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).
- E finishes shall not be used below grade when applied as the finish for a Dryvit EIF System.

- E finishes are not intended for direct-applied, vertical applications over exterior gypsum based sheathing board, foam plastic insulation or other type insulation board.
- E finishes shall not be returned into any sealant joint. Instead, a coat of Dryvit Color Prime or Dryvit Demandit® should be applied over the base coat in the joint.
- E finishes are not available in colours formulated with Dryvit's Accent Base.

Technical and Field Services

Available on request.

E 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 °F
Water Vapor Transmission	ASTM E 96 Procedure B	ICC: Vapor Permeable No ANSI/EIMA Criteria	21 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: 7 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: 0.99 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	300 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 quarts): No deleterious effects ³
	ASTM D 4060 Taber Abrasion (1 kg load)	No ICC or ANSI/EIMA Criteria	1000 cycles: 104.7 mg loss
Adhesion to Concrete	ASTM D 4541	ICC and ANSI/EIMA 99-A-2001: 15 psi minimum	>203 psi
Tensile Bond	ASTM C 297/E 2134 (formerly EIMA 101.03)	ICC and ANSI/EIMA 99-A-2001: 15 psi minimum	>29 psi
Scrub Resistance	ASTM D 2486	No ICC or ANSI/EIMA Criteria	Avg. 0.22% loss

1. Testing referenced is based on Quarzputz E Pastel Base finish.

2. Finish applied over aluminum panels, bent on cylindrical mandrels as described in ASTM D 522 Method B. Lower diameter indicates high 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 of QUV prior to evaluating Delta E.

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