

Description

TerraNeo finishes (loosely translated as "New Earth") offer architects, designers and building owners a natural aggregate finish that establishes an innovative and exciting surface with distinctive features. TerraNeo finishes offer high-performance attributes that ensure a long-lasting, radiant finish certain to enhance a building's stature.

Benefits

TerraNeo is ready mixed and has excellent color retention. It is vapor permeable and is resistant to dirt pickup, mildew growth and UV degradation.

Uses

TerraNeo is recommended for use with any of Dryvit's exterior insulation systems, as well as over cement plaster, masonry, tilt-up panels, or precast concrete panels. TerraNeo finishes also make an outstanding impression on interior walls of all kinds.

Coverage

The recommended coverage is 8.8-9.3 m² (95-100 ft²) per 19 L (5 gal) pail at a recommended thickness of 1.6-3.2 mm (1/16-1/8 in). Coverage will vary depending upon the texture and appearance desired. TerraNeo is shipped in 27.2 kg (60 lb) pails.

Properties

Drying Time - The drying time of TerraNeo is dependent upon the air temperature, relative humidity and finish thickness. Under average drying conditions [21 °C (70 °F), 55% R.H.], the finish will dry in 48 hours. Lower

temperature and higher humidity will require that the TerraNeo 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 TerraNeo must be 10 °C (50 °F) or higher and must remain so for a minimum of 48 hours.

Temporary Protection - Shall be provided at all times until, TerraNeo 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 10 °C (50 °F) and must be clean, dry, structurally sound and free of efflorescence, grease, loose paint, oil, form release agents and curing compounds. Interior painted surfaces must be lightly sanded before application of Dryvit Color Prime™.
- **Dryvit Reinforced Base Coat:** The base coat must cure for a minimum of 24 hours and be dry before application of Dryvit Color Prime and TerraNeo.
- **Concrete:** Shall have cured a minimum of 28 days prior to

application of Color Prime and TerraNeo. 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 using a roller or brush (see product data sheet for mixing and application) prior to application of TerraNeo.

- **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 sheets for mixing and application) to produce a smooth, level surface. Dryvit Color Prime shall be applied to the prepared masonry surface using a roller or brush (see product data sheet for mixing and application) prior to application of TerraNeo.
- **Stucco:** Dryvit Color Prime shall be applied over the cured brown coat using a roller or brush (see product data sheet for mixing and application). If additives are present in the stucco, a test patch shall be made and bond strength checked prior to application.

Mixing - Just prior to application, mix the TerraNeo for 1 minute to ensure uniformity using a Twister paddle or equivalent mixing blade, powered by a high-torque 12.7 mm (1/2 in) drill, at 400-500 rpm. **DO NOT OVERMIX.** The TerraNeo will usually trowel apply well enough after being mixed **without the addition of water.** If necessary, additional water can be added in small increments. The same amount of water must be added to all pails of a given batch. Do not add more than 6 ounces of water per pail. **Contact a Dryvit Field Service Manager if a given batch of TerraNeo needs more than 6 ounces of water per pail to spread properly.**

Application - Color-coordinated Dryvit Color Prime (*see chart below) shall be applied to all substrates a minimum of four hours prior to application of TerraNeo. Color Prime must be fully dry before TerraNeo is applied. Trowel apply an even layer onto the primed base coat, approximately 1.6-3.2 mm (1/16-1/8 in) thick. With a clean plastic float, lightly float the surface of the TerraNeo finish using a tight figure 8 pattern. Float over the finish lightly several times, cleaning the float frequently in the process. This

will bring the large mica to the surface and enhance the granite appearance. Allow the TerraNeo to thoroughly dry for a minimum of 48 hours under average drying conditions [21 °C (70 °F), 55% R.H.]. Do not apply TerraNeo on surfaces that will receive sealant. Those surfaces shall be coated with color-coordinated Color Prime.

Clean Up - Clean tools with water while TerraNeo 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
TerraNeo must be stored at a minimum of 10 °C (50 °F) and a maximum of 38 °C (100 °F) in tightly sealed containers out of direct sunlight.

Cautions and Limitations

- TerraNeo 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).
- TerraNeo shall not be used below grade.

- TerraNeo is not intended for direct-applied, exterior vertical applications over exterior gypsum based sheathing board, foam plastic insulation or other type insulation board.
- Minor color deviation will occur due to the natural aggregate and variations in raw materials. It is strongly recommended that when ordering this finish for a particular project, all pails required to complete that project be ordered at the same time. To achieve the best color results, material from the same batch number should be applied to a specific wall section. Therefore, check batch numbers before applying materials.
- TerraNeo shall not be returned into any sealant joint. Instead, a coat of Color Prime or Demandit shall be applied over the base coat in the joint.
- A site mock-up of sufficient size [2.4 x 2.4 m (8 x 8 ft)] shall be coated by the applicator/contractor with the TerraNeo finish to establish acceptance by the owner, architect or project manager.

Technical and Field Services
Available on request.

TerraNeo Colors		Coordinating Color Prime Colors	
200	Gibraltar	618	Antique Gray
201	Zanzibar	327	Mocha
202	Serengeti	117	Colonial Tan
203	Sonora	347A	Winter Brown
204	Amazon	527	Brushed Gray
205	Andes	306	Swiss Mocha
206	Vesuvius	634A	Granite Gray
207	Glacier	132	Mountain Fog
208	Teton	318	Brown Flair
209	Everest	104	Dover Sky

TerraNeo 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: 3.5" diameter @ 40 °F
Water Vapor Transmission	ASTM E 96 Procedure B	ICC: Vapor Permeable No ANSI/EIMA Criteria	45 Perms
Accelerated Weathering	ASTM G 154 Cycle 1 (QUV)	ANSI/EIMA 99-A-2001 2000 hours: No deleterious effects ²	5000 hours: No deleterious effects ²
	ASTM G 155 Cycle 1 (Xenon Arc)	ICC: 2000 hours: No deleterious effects ²	2000 hours: No deleterious effects ²
Chalk Rating	ASTM D 4214 after ASTM G 154 Cycle 1	No ICC or ANSI/EIMA Criteria	Chalk rating: 8 after 5000 hours QUV
Instrumentally Measured Color Difference ³ (includes yellowing)	ASTM D 2244 CIELAB, 10° Observer after ASTM G 154 Cycle 1	No ICC or ANSI/EIMA Criteria	Color change: 5.0 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 ²	90 cycles: No deleterious effects ²
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 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 500 liters (528 quarts); No deleterious effects ²	1000 liters (1057 quarts): No deleterious effects ²
	ASTM D 4060 Taber Abrasion (500 g load)	No ICC or ANSI/EIMA Criteria	1000 cycles: .83 mg mass loss/rev
Adhesion to Concrete	ASTM D 4541	ICC and ANSI/EIMA 99-A-2001: 15 psi minimum	>231 psi
Tensile Bond	ASTM C 297/E 2134 (formerly EIMA 101.03)	ICC and ANSI/EIMA 99-A-2001: 15 psi minimum	>23 psi
<p>1. Finish applied over aluminum panels, bent on cylindrical mandrels as described in ASTM D 522 Method B. Lower diameter indicates higher flexibility.</p> <p>2. No cracking, checking, rusting, crazing, erosion, blistering, peeling, or delamination when viewed under 5x magnification.</p> <p>3. Delta E is total color difference, including yellowing, lightening, darkening, changes in red, blue, and green color values. Finish exposed to 5,000 hours of QUV prior to evaluating Delta E.</p>			

Dryvit Systems, Inc.
One Energy Way
West Warwick, RI 02893
800-556-7752
www.dryvit.com

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