

Description

Granyte is a high solids, one component, water based 100% acrylic finish designed to reproduce the look of flame-cut granite.

Granyte is composed of all natural aggregates in a clear binder without additional pigments. Specifically formulated as a low VOC product, Granyte is also available as Granyte-RT, specifically formulated for reduced drying time. Granyte-RT finish may be appropriate for conditions where high humidity and cooler temperatures may exist.

Benefits

Granyte finish is ready mixed and has excellent color retention. It is vapor permeable and is resistant to dirt pickup, mildew growth and UV degradation. Granyte also meets NFPA Class A Flame Spread requirements. Granyte provides an extremely durable wall surface with high abrasion and impact resistance.

Uses

Granyte finish is recommended for use over practically any paint ready substrate including interior wall board, interior and exterior masonry, concrete and stucco.

Coverage

The recommended coverage is 85 - 95 ft² (7.9 - 8.8 m²) per 5 gal (19 L) pail at a recommended thickness of 1/16 - 1/8 in (1.6 - 3.2 mm). Coverage will vary depending upon the texture and appearance desired. Granyte is shipped in 60 lb (27.2 kg) pails.

Properties

Drying Time - The drying time of Granyte finish is dependent upon the air temperature, relative humidity and finish thickness. Under average drying conditions [70 °F (21 °C), 55% R.H.], the finish will dry in 48 hours. Protect work from rain during the drying period. Lower temperature and higher humidity will require that the Granyte finish be protected for longer periods.

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 Granyte finish must be 50 °F (10 °C) or higher and must remain so for a minimum of 48 hours.

Temporary Protection - Shall be provided at all times until Granyte finish is dry, and for exterior applications, 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. Expansion/Control Joints in the substrate shall be carried through the Granyte finish.
- Interior and exterior surfaces must be above 50 °F (10 °C) 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 Triarch Primer™.
- **Interior Wallboard:** Surfaces shall be installed and finished to ASTM C 840, Level 4 condition prior to application of Triarch Primer.
- **Concrete:** Shall have cured a minimum of 28 days prior to application of Triarch Primer and Granyte 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 Triarch Skimm™ or Reformit™ mixture. Triarch Primer shall be applied to

the prepared concrete surface using a roller or brush prior to application of Granyte finish.

- **Masonry:** The masonry surface, with joints struck flush, shall be skim coated with Triarch Reformit mixture to produce a smooth, level surface. Triarch Primer shall be applied to the prepared masonry surface using a roller or brush prior to application of Granyte finish.
- **Stucco:** Stucco and associated control joints shall be installed in accordance with ASTM C 926, ASTM C 1063 and industry practices. The stucco brown coat shall be finished using a wood or hard rubber float to provide enough "tooth" for proper adhesion of the finish coating. Triarch Primer shall be applied over the cured brown coat using a roller or brush. 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 Granyte finish for 1 minute to ensure uniformity using a Twister paddle or equivalent mixing blade, powered by a high-torque 1/2 in (12.7 mm) drill, at 400-500 rpm. **DO NOT WHIP THE MATERIAL OR OVERMIX AS IT WILL BREAK UP THE MICA PARTICLES AND AFFECT APPLICATION AND AESTHETICS.** The Granyte finish will normally 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 Triarch Field Service Manager if a given batch of Granyte needs more than 6 ounces of water per pail to spread properly.**

Granyte/Granyte-RT

Primer: - Color-coordinated Triarch Primer (*see chart below) shall be applied to all substrates a minimum of four hours prior to application of Granyte finish. Triarch Primer must be fully dry before Granyte is applied.

Application - Using a stainless steel trowel, apply an even layer of Granyte finish onto the primed surface, approximately 1/16 - 1/8 in (1.6 -3.2 mm) thick. With a clean plastic float, lightly float the surface of the Granyte 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.

Granyte Color #162 Lennox

White: - Using a stainless steel trowel, apply an even layer of Granyte finish onto the primed surface, approximately 1/16 - 1/8 in (1.6 -3.2 mm) thick. For best results, use medium trowel pressure and clean the trowel frequently with clean water. Smooth the finish with light trowel pressure and a flat trowel angle. After a short drying time, the finish is spot faced (localized filing in) to achieve a dense uniform surface. While the finish is drying, use a clean, wet, thin gauged plastic trowel (such as Pavan 817/PV) and light pressure to even out the surface so that the aggregate is compressed into a compact and smooth coating.

Clean Up - Clean tools with water while Granyte is still wet.

Maintenance - All Triarch products are designed to require minimal maintenance. However, as with all building products, depending on location, some cleaning may be required. For cleaning recommendations, see Triarch publications T518 and T510. For additional protection Triarch Acrylic Glaze (T117) clear sealer may be applied to the Granyte surface.

Storage

Granyte 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

- Granyte must not be used on exposed exterior horizontal surfaces. Minimum slope is 6 in 12, (27°). Maximum length of slope is 12 in (305 mm).
- Granyte shall not be used below grade.
- Granyte 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.
- Do not apply Granyte on surfaces that will receive sealant. Those surfaces shall be coated with color-coordinated Triarch Primer.

- Therefore, check batch numbers before applying materials.
- For exterior applications, Granyte shall not be returned into sealant joints. When specified, a coat of Triarch Primer may be applied over substrate surfaces that will receive sealant.
- A site mock-up of sufficient size [8 x 8 ft (2.4 x 2.4 m)] shall be coated by the applicator/contractor with the Granyte finish to establish acceptance by the owner, architect or project manager.

Technical and Field Services

Available on request

Related Documents:

T1224 Brochure
T101 Skimm PDS
T309 Guide Specification
T636 Illustrated Application Instructions
T209 MSDS
T116 Reformit PDS
T117 Acrylic Glaze PDS
T118 Triarch Primer PDS
T518 Cleaning Instructions
T510 Cleaning Instructions

QR link to: Coatings Design – Granyte



| Granyte Colors | | Coordinating Triarch Primer Colors | |
|----------------|-----------------------------|------------------------------------|--------------|
| 150 | Ocean Granite | 325 | Pinstripe |
| 151 | Viscount White | 365 | Cable |
| 152 | Zimbabwe | 2002 | Storm Cloud |
| 153 | Lava Stone | 3095 | Deep Water |
| 154 | Raw Silk | 2220 | Moonstone |
| 154 | Raw Silk with gold mica | 2220 | Moonstone |
| 155 | Nordic Green | 2330 | Sage |
| 155 | Nordic Green with gold mica | 2330 | Sage |
| 156 | Labrador | 2251 | Mountain Eve |
| 157 | Rosewood | 4120 | Brick |
| 158 | Bloodstone | 6900 | Bordeaux |
| 159 | Dakota Brown | 4140 | Cappuccino |
| 160 | Snow White | 100 | White |
| 160 | Snow White with gold mica | 100 | White |
| 161 | Zorro | 4240 | Onyx |
| 161 | Zorro with gold mica | 4240 | Onyx |
| 162 | Lennox White | 100 | White |

| Granyte Finish Testing | | | |
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| Test | Test Method | Criteria | Results |
| VOC | ASTM D 6886 | 50 g/l | Granyte: 11.49 Granyte-RT: 8.16 |
| Surface Burning Characteristics | ASTM E 84 | ICC, ANSI/EIMA 99-A-2001, NFPA Class A 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 528 quarts (500 liters): No deleterious effects ² | 1057 quarts (1000 liters): 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 |

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.
 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.

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