

Granyte/Granyte-RT Specifications

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SECTION 09 96 00

PART 1 - GENERAL

1.01 SCOPE

Provide all labor, materials and equipment necessary to apply the tinted Primer™ and Granyte finish over interior drywall or cementitious substrate or exterior concrete, stucco, or masonry.

1.02 REFERENCES

- A. ASTM E 96 - Tests for Water Vapor Transmission of Materials
- B. ASTM D 2247 - Method of Testing Coated Metal Specimens at 100% Relative Humidity
- C. ASTM D 968 - Test Method For Abrasion Resistance of Organic Coatings by the Falling Abrasive Tester
- D. ASTM G 154 – Accelerated Weathering
- E. ASTM E 84 - Test Method for Surface Burning Characteristics of Building Materials
- F. ASTM D 3273 – mildew resistance
- G. MIL STD 810B – mildew resistance environmental test methods
- H. ASTM E 2485 Freeze/Thaw
- I. ASTM B 117 – Salt Spray

1.03 DESCRIPTION

The Triarch Granyte finish is an architectural finish consisting of a blend of naturally colored quartz aggregates with large mica chips and a clear 100% acrylic binder. Granyte is offered in a dozen design colors.

1.04 SUBMITTALS

- A. Samples: The applicator shall make and submit two (2) 2 ft x 4 ft (0.6 m x 1.2 m) samples of the proposed finish to the architect and/or owner for approval.
- B. Mock-up: A minimum mock-up area of 8 ft x 8 ft (2.4 m x 2.4 m) shall be installed by the applicator/contractor to establish the acceptable finish standard; such a mock-up shall be subject to acceptance by the owner, architect or project manager. Samples (A) will be reviewed for consistency against the mock-up and MUST travel with the Granyte work as it is being installed.
- C. Manufacturer's Information: Submit manufacturer's product information and specifications.

1.05 QUALITY ASSURANCE

- A. Qualifications: System manufacturer shall be Triarch. All materials shall be manufactured or sold by Triarch and shall be purchased from Triarch or its authorized distributor.
1. Materials shall be manufactured at a facility covered by a current ISO 9001:2008 and ISO 14001:2004 Certification. Certification of the facility shall be done by a registrar accredited by the American National Standards Institute, Registrar Accreditation Board (ANSI-RAB).
 2. All bidding applicators shall have attended a factory provided Granyte application training session.
 3. Applicator shall submit a photocopy of factory certificate as proof of attendance.
 4. Applicator shall purchase all necessary Granyte materials at one time to avoid any natural color variation.
 5. Applicator shall provide attic stock from original purchase lot to end user as required in section 3.05.
- B. Substrates: Shall be prepared to the equivalent of a Level 4 drywall finish prior to the application of Granyte. The following substrates are approved for the application of the Granyte finish when prepared in accordance with this specification.
1. Interior uses:
 - Drywall
 - Plaster
 - Unit Masonry
 - Concrete
 2. Exterior uses:
 - Sound unglazed brick, masonry units (CMU) or concrete
 - Sound stucco
 - Triarch wall preparation compounds

The applicator shall verify that the proposed substrate is acceptable prior to application of Granyte.

- C. Granyte minimum performance standards:
- Water Vapor Transmission (ASTM E 96) - Water Vapor Permeable at 45 perms
 - Moisture Resistance (ASTM D 2247) - 14 days exposure, no deleterious effects.
 - Salt Spray Resistance (ASTM B 117) - 300 hours, no deleterious effects.
 - Accelerated Weathering (ASTM G 154) - 5000 hours, no deleterious effects.
 - Mildew Resistance (MIL STD 810B) - Passes
 - Flame Spread (ASTM E 84) Class A - <25
 - ASTM E 2485 Freeze/Thaw - 90 cycles, no deleterious effect
 - Water Resistance (ASTM D 2247) - 42 days, no deleterious effect
 - Mildew Resistance (ASTM D 3273) - 60 days, no growth

1.06 DELIVERY AND STORAGE

- A. All materials shall be delivered to the job site in the original, unopened packages with labels intact. Upon arrival, materials shall be inspected for physical damage, freezing or overheating. Questionable materials shall not be used.
- B. All materials shall be stored in a cool, dry location, out of direct sunlight and protected from weather and other damage.
- C. Minimum storage temperature shall be 50° F (10° C). Maximum storage temperature shall be 100°F (38° C).

1.07 JOB CONDITIONS

- A. Existing Conditions: The applicator shall have access to electric power, clean water and a clean work area at the location where the Granyte materials are to be applied.
- B. Environmental Conditions: The ambient air and wall temperatures shall be minimum 50° F (10° C) for the application of Primer™ and Granyte. The temperature shall remain so for at least 24 hours thereafter or longer if necessary for the materials to sufficiently dry.
- C. Protection: Adjacent areas and materials shall be protected from damage, drops and spills.

- D. The Granyte materials shall be protected by permanent or temporary means from weather and other damage prior to, during, and immediately after application. Care must be taken to provide adequate ventilation to prevent condensation and/or heat build-up when using tarp or plastic as protection.
- E. Sequencing and Scheduling: Application shall be coordinated with other construction trades.
- F. Sufficient material, labor, and equipment shall be employed to ensure a continuous operation, free of cold joints, texture variations, scaffold lines, etc.

1.08 LIMITED MATERIALS WARRANTY

Triarch shall offer a written (10) Year Limited Materials Warranty upon receipt of a properly executed warranty request and completed project form. Contact Triarch Warranty Services Department for full details.

1.09 DESIGN RESPONSIBILITY

It is the responsibility of the specifier to determine if a product is suitable for its intended use. Triarch has prepared guidelines in the form of specifications and product sheets to facilitate the design process only. Triarch is not liable for any errors or omissions in design, detail, structural capability, attachment details, shop drawings, etc. or for any change which specifiers or their appointed representatives may make to Triarch's published comments.

1.10 MAINTENANCE

All Triarch products are designed to require low maintenance. However, as with all building products, depending on location, some cleaning may be required.

PART II – PRODUCTS

2.01 GENERAL

The Granyte finish shall be supplied by and obtained from Triarch. Substitutions will not be allowed. Contact Triarch at: 1-800-537-6111.

2.02 COMPONENTS

- A. Granyte Finish: An architectural finish consisting of a blend of naturally colored quartz aggregates and a clear 100% acrylic binder. Reference color shall be CS# _____, (Specifier to add color preference number).

- B. Primer™: A pigmented, exterior/interior acrylic emulsion primer supplied by Triarch.

2.03 EQUIPMENT

- A. Mixing shall be done with a clean Twister paddle powered by a 1/2 in (12.7 mm) drill at 400-500 RPM.
- B. Tools associated with the plastering and painting trades as detailed in factory application instructions for Granyte.

PART III – EXECUTION

3.01 INSPECTION

- A. Examination of Substrate: Ensure that the substrate is of a type and condition listed in Section 1.05.B.
- B. Ensure that minimum application temperatures are met per Section 1.07.

3.02 SUBSTRATE PREPARATION

- A. Interior Surfaces
 - 1. Drywall shall have its joints taped and fasteners spotted with drywall joint compound to provide a smooth base equivalent to a Level 4 drywall finish or better.
 - 2. Interior plaster shall be finished smooth. Interior masonry or cement shall be cleaned to remove all dirt, dust, efflorescence or any other foreign matter which may interfere with application of a surface coating. Rough surfaces shall be skimmed with Triarch's Skimm™ or Reformit™ to provide a smooth, flat and level base in accordance with published system's application instructions.
- B. Stucco, masonry, and concrete
 - 1. Stucco and concrete walls shall have cured per manufacturer's instructions prior to application of Triarch's Primer and Granyte finish.
 - 2. Walls shall be cleaned to remove all dirt, dust, efflorescence, or any other matter which may interfere with the bond of a surface coating.
 - 3. Rough surfaces shall be skimmed with Triarch's Skimm or Reformit to provide a smooth, flat, and level base in accordance with published system's application instructions.

3.03 APPLICATION

Primer™ Application

1. The specified color coordinated Triarch Primer shall be applied to the surface prior to Granyte application.
2. Stir to a smooth, homogeneous consistency.
3. Apply using a brush, or paint roller.
4. Allow to completely dry (minimum 4 hours) prior to Granyte application.
5. Be sure to test adhesion of primer to substrate after drying and before application of Granyte. Document results.

B. Granyte Finish Application

1. Supply and install the Triarch Granyte primer in accordance with factory instructions.
2. Granyte shall be stirred for no more than 1 minute to ensure uniformity using a Twister paddle powered by a 1/2 in (13mm) drill at 400-500 RPM, just prior to application. DO NOT OVER MIX OR MIX AT HIGH SPEED. High speed mixing will shear the mica chips.
3. Granyte shall be applied 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 This coat must be free of trowel lines, voids and imperfections. With a clean plastic float or plastic knock down blade, lightly float the surface of the Granyte finish using a tight figure 8 pattern. Lightly float over the finish several times, cleaning the float frequently in the process. This will bring the large mica to the surface and enhance the Granyte appearance.
4. **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 filling in) to achieve a dense uniform surface. While the finish is drying use a thin gauged plastic trowel (such as Pavan 817/PV) keeping it wet and with light pressure, even out the surface so that the aggregate is compressed into a compact and smooth coating. Allow the Granyte to dry a minimum of 48 hours under average drying conditions; [70 °F (21 °C), 50% R.H.] Cool, damp conditions may require longer drying time. After such time, fill and hone all depressions, imperfections, holidays, voids, fissures and so forth with the specified Granyte material to blend with surrounding material and so that no notice can be found in the surrounding area of the remedial work. All Granyte work shall be filled, honed and sanded so as to be adequate for interior smoothness and in accordance with designer approved samples.
5. Do not apply Granyte on surfaces that will receive sealants or caulks. Those surfaces shall be coated with color coordinated Primer.

6. If additional dirt pickup resistance is desired, a coat of Acrylic Glaze™ as manufactured by Triarch may be applied by spray or roller.
7. Avoid mixing batches. Granyte contains naturally colored aggregate and slight color variations may occur. Order in single batches when possible, or at least avoid using more than one batch elevation. Should multiple batches be received by installer, cross box pails to avoid any batch color differentials.

3.04 FIELD QUALITY CONTROL

- A. Triarch assumes no responsibility for on-site inspections. Triarch and/or its distributors will provide field service support with sufficient notice from the applicator if a specific job problem develops. The designer, general contractor, or their appointed representative should make periodic on-site inspections to ensure that the Triarch materials are being installed in strict accordance with Triarch's specifications. The applicator shall be responsible for the proper application of the Triarch materials. Triarch does not warrant the applicator's workmanship.
- B. If requested, the applicator shall certify in writing the quality of work performed relative to the substrate system, details, installation procedures and workmanship is in accordance with project specifications and manufacturer's instructions.

3.05 CLEAN-UP & POST INSTALLATION

- A. Materials left over by the applicator at the job site shall be removed by the applicator and disposed of in accordance with all local, state, and federal requirements.
- B. The applicator shall clean adjacent materials and surfaces and the work area of foreign materials resulting from their work.
- C. **Attic Stock** for end customer: Installer shall supply and invoice customer for _____ 5 gallon (19 L) pails, (Specifier to add quantity), of each Granyte finish installed on project from initial original purchase lot.

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Information contained in these application instructions conforms to standard detail and product recommendations for the installation of Granyte® as of the date of publication of this document and is presented in good faith. Triarch assumes no liability, expressed or implied, as to the architecture, engineering or workmanship of any project. To insure that you are using the latest, most complete information, contact Triarch.

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