

DUROPLEX[®]
Textured Acrylic Coating
For Interior Wall Finishes

TRIARCH
FINE ARCHITECTURAL FINISHES

T302

DUROPLEX[®]

Guide Specifications

BEFORE SPECIFYING DUROPLEX®

TRIARCH finishes are handcrafted materials. The degree of texture, and the color proportions of multiple color designs, may vary depending upon applicator equipment and job site conditions. TRIARCH, upon request, will provide larger scale samples for the selection purposes. This should not replace the final sample submittal from the applicator.

Duroplex® should be applied by applicators that have attended a Triarch product application training session. This helps to keep quality control high and the end result consistent with design intent. TRIARCH does not, however, warrant the applicator's capabilities to handle a specific job or their workmanship on any project. It is up to the entity hiring the installer to insure that the installer is capable of doing a particular project. This is best accomplished by requiring a mock-up and providing design approval of the mock-up.

Plexture® is easy to install and may be applied through factory trained applicators or through untrained contractors. If Plexture® is applied through untrained contractors, no mold/mildew warranty will apply.

IMPORTANT

ALWAYS DEMAND A MOCK UP FOR APPROVAL BEFORE THE INSTALLATION.

ALWAYS REQUEST A SAMPLE BE SUBMITTED BY THE APPLICATOR FOR DESIGN APPROVAL PRIOR TO COMMENCING WORK AT THE JOB SITE.

WHENEVER POSSIBLE, REQUEST THE SAMPLE TO BE APPLIED TO A SECTION OF SUBSTRATE ON THE JOB SITE.

SPECIFYING INTERNATIONAL PROJECTS

International projects require the foreign national contractor to contact TRIARCH for obtaining pricing and product information. Our toll free phone number does not work internationally.

Below is additional supplemental information that should be included in any international project specification or finish sheet.

Phone: (country code 01) 401-822-4100
Fax number: (country code 01) 401-822-2984
Website address: www.triarchinc.com

TRIARCH maintains limited relationships for distribution and contractor contacts in the following countries:

ALL ISLANDS IN THE CARIBBEAN, THROUGHOUT THE MIDDLE AND FAR EAST, SOUTH AMERICA, AND THE UNITED KINGDOM.

TRIARCH
GUIDE SPECIFICATIONS
SECTION 09960
Duroplex

PART 1 – GENERAL

1.01 SUMMARY

- A. This document is intended to be used in preparing specifications for projects utilizing DUROPLEX® as manufactured by TRIARCH, 1-800-537-6111, www.triarchinc.com.

1.02 RELATED DOCUMENTS

- A. Drawings and general provisions of Contract, including General Conditions, Special Provisions, and Division 1-16 Specification sections, apply to work of this section.

1.03 DESCRIPTION

- A. Duroplex is a textured acrylic coating used as an interior wall finish.
- B. Design Requirements
1. ACCEPTABLE SURFACES FOR DUROPLEX INCLUDE:
- a. Drywall
 - b. Cementitious substrates such as concrete, concrete block, cement plaster, etc.
 - c. Ferrous metals
 - d. Galvanized surfaces
 - e. Painted surfaces
- C. Performance Requirements
1. STANDARDIZED TESTS:
- | | |
|--|--------------------------|
| a. Barcoll Hardness Index | 38 or greater |
| b. ASTM-E84 Flame Spread | 15 or less |
| c. ASTM E84 Smoke Developed | 5 or less |
| d. Federal Aviation Agency Vertical
Burn Test #FAR 25.853 (b) | 0.1 seconds or less |
| e. Water Vapor Permeability ASTM
E-96, B | 27.5 Perms
or greater |

- f. ASTM-D3273-00 Surface Mold Resistance 10 (no growth)
- g. UPITT (LC50 for thermal decomposition) 150 grams or greater
- h. Documented by SCS as Indoor Advantage Gold for low VOC material
- i. Conforms to CHPS-CA section 01350

2. SOLVENT RESISTANCE: (1 hour soak)

- a. Water temporary slight softening*
- b. Detergent no change
- c. Ethanol no change
- d. Naphtha no change
- e. Ammonium Hydroxide temporary slight softening*
- f. Ethylene Glycol no change
- g. Bleach (household) temporary slight softening*
- h. Mineral spirits no change

*Original hardness regained after drying.

3. STAIN RESISTANCE: (10 hour soak and wash with 409 Cleaner or bleach, and water)

- a. Water no stain visible
- b. Blood no stain visible
- c. Urine no stain visible
- d. Coffee no stain visible
- e. Tea no stain visible
- f. Blueberry no stain visible

4. MILDEW RESISTANCE:

- a. No visible mildew after incubation for ninety days (90) in 95 degrees F. and 90% relative humidity under high contamination conditions.

5. COLOR:

- a. All pigments shall be: free of heavy metals, fade resistant, and bleach resistant. Provide at least EIGHTY factory colors and factory custom color service.

1.04 QUALITY ASSURANCE:

- A. **COMPATIBILITY:** Provide primers and other substrate preparation materials that are produced or are specifically recommended by the same manufacturer as the finish materials to insure compatibility of the system. Use thinners approved by the coating manufacturer, and use only within recommended limits.
- B. ISO 14001 manufacturing facility
- C. **QUALIFIED APPLICATOR**
 - 1. All bidding applicators should have attended a factory product application session and otherwise be qualified to apply materials prior to submitting bid. Applicator shall submit a photocopy of factory certificate as proof of attendance at factory training session with the bid.
- D. **SKILLED WORKMANSHIP:** All work shall be done by skilled mechanics in accordance with the best standard practice in the industry. Work shall be uniform in appearance, free of visual defects, and complete.
- E. **COORDINATION OF WORK:** Review other sections of these specifications in which prime paints, raw substrates, or other substances might be present to insure compatibility of total coatings systems. Upon request from other trades, furnish information or characteristics of coating materials provided for use to insure compatible substrate materials and finishes are used.

1.05 SUBMITTALS:

- A. **PRODUCT DATA:** Submit manufacturer's technical information including installation instructions, product description, and product test data conforming to the test performances required herein. Test data may be submitted in printed form from the manufacturer's standard printed material; however, if requested, Contractor shall submit specific performance test information as certified by independent laboratory analysis (as furnished by the manufacturer to support performance claims).
- B. **SAMPLES:** Prior to beginning work, Contractor shall make and submit three (3) 8"X10" samples of the selected colors and textures for Architect's review. Provide for each sample a listing of materials and the application for each coat of material.

In addition to the above, Contractor shall install on the jobsite one sample of each Textured Acrylic Coating finish on each different typical jobsite substrate. Each sample shall be installed over an area of not less than thirty (30) square feet. Contractor shall also create or cause to be created temporary or

permanent lighting which accurately reproduces finished-project lighting conditions for the purpose of viewing above samples. Work on the balance of the areas to be coated shall commence after Contractor has received written approval of the installed jobsite samples from Architect or Owner.

- C. **QUALITY STANDARD:** Final acceptance of Textured Acrylic Coating finish shall be based upon substantial duplication of jobsite samples produced in accord with 1.04--B above.

1.06 DELIVERY AND STORAGE:

- A. **DELIVER MATERIALS** to jobsite in the original, new and unopened packages and containers bearing manufacturer's name and label, and following information: Name or title of materials, manufacturer's stock and/or batch number, date of manufacture, contents of containers including color name and number.
- B. **STORE MATERIALS NOT IN ACTIVE USE IN TIGHTLY COVERED CONTAINERS.** Maintain containers in a clean condition, free from foreign materials and residue. Protect from freezing and maintain temperatures below 100 degrees F. Keep materials stored in an orderly and organized manner to reduce the risk of error. Do not stack materials more than three (3) containers high. Protect from fire hazards.

1.07 JOB CONDITIONS:

- A. **APPLY** materials only when surface temperature is between 60 and 100 degrees F and expected to remain so for 24 hours. If dry conditions cause rapid drying of the materials before proper finishes can be completed, eliminate breezes, fans or other air movements which contribute to the problem, and, if necessary, dampen the substrate with finely misted water just prior to application.
- B. **PROTECT** finishes from casual impact and rain for a period of forty-eight hours after installation. Protect from heavy traffic for a period of at least three days. Protect all surfaces and adjacent areas not intended to be coated and clean immediately any spillage, droppings, or other extraneous contact of the materials with other surfaces.

1.08 MINIMUM FACTORY MATERIAL WARRANTY REQUIREMENTS:

- | | |
|--|------------------------------------|
| A. Material Warranty-coating integrity | 10 years- From date of application |
| Mold & Mildew Material Warranty | 10 years- From date of application |

PART 2 – PRODUCTS

(NOTE TO SPECIFICATION WRITER: Texture and finish must be selected prior to bidding because of wide differences in labor costs for different application techniques. The CS# as <remove this space>recommended below will be found on the back of a sample that has been custom-made at the factory. For samples taken from the Triarch Architectural Portfolio, the finish name is sufficient for specification purposes and the CS# specification may be deleted. For Specification writers who cannot use Duroplex's proprietary name, use the last sentence of Section 2.01 as the Materials specification. Selection of texture, color and a CS# number are still appropriate for a specification that only refers to TEXTURED ACRYLIC COATINGS)

2.01 MATERIALS: Provide DUROPLEX Textured Acrylic Coating products as manufactured by TRIARCH.

Texture to be: (Here enter the name of the selected texture).

CS# (Enter the Custom Sample Number provided by Triarch).

Textured Acrylic Coating materials shall have the following minimum performance characteristics when finished and fully cured (28 days under nominal conditions):

PART 3 - EXECUTION**3.01 GENERAL:****A DESCRIPTION OF WORK:**

1. EXTENT of wall/ceiling coating work is indicated on drawings and schedules, as herein specified.
2. WORK INCLUDES masking, protection of adjacent surfaces, priming, finishing, and cleanup of all Textured Acrylic Coated areas throughout the project as designated on the drawings and finish schedules, except as otherwise specifically indicated.

(Write a general description of the scope of work) "TEXTURED ACRYLIC COATING" as used herein means specialty texture acrylic coatings having a minimum thickness of 20 mils and meeting the minimum performance specifications stated herein.

3. WORK SPECIFIED IN OTHER SECTIONS: Paint, stain, primer, other specialty coatings, fire proofing, tile, masonry, pre-finished panels, stains, preservative treatments, shop applied finishes, wall coverings, etc.
- B. PERFORM** preparation and cleaning procedures in accordance with manufacturer's recommendations and as herein specified, for each particular substrate condition.

- C. REMOVE hardware, hardware accessories, machined surfaces, plates, lighting fixtures, and similar items in place and not to be finish coated, or provide masking or other protection prior to surface coating operations. Following completion of coating of each space or area, reinstall removed items.
- D. CLEAN surfaces to be coated before applying any materials. Remove oils and grease prior to mechanical cleaning. Program cleaning and coating so that contaminants from cleaning process will not fall into wet or newly coated surfaces.

3.02 SURFACE PREPARATION: (Here select the substrate preparation instructions appropriate to the work)

- A. DRYWALL: Prepare drywall to industry acceptable standard for hanging vinyl wall covering. Remove excess gypsum compound dust. Do not prime or seal the drywall except as specifically recommended by Texture Acrylic Coating manufacturer. Dampen surface slightly with a light spray mist of water just prior to application of acrylic wall coating materials. For damaged drywall, or after removal of old wall covering, apply GARDZ® High Performance Sealer by Zinsser www.zinsser.com following the manufacturer's label directions.
- B. CEMENTITIOUS SUBSTRATES: Prepare cementitious surfaces such as concrete, concrete block, cement plaster, etc. by cleaning to remove dust, grease, form release agents, etc.; then patch all major holes and honeycombs using structural grout manufactured for the purpose as specified in the concrete Division of these specifications. Then grind all projections above the planar surface until flush. Fill, and float smooth all recessed form seams and other minor imperfections using either SKIMM® Acrylic Surfacing Compound, or REFORMIT™ as manufactured by Triarch Industries. Allow Acrylic Surfacing Compound to dry at least 24 hours under nominal conditions. Dampen dry cementitious surfaces just prior to installation of acrylic surfacing compound materials. Wipe away any active condensation or surface water sufficient to cause a wet glaze prior to beginning installation. **NOTE: Water sensitive materials such as gypsum based products are not recommended for skimming over concrete or CMU surfaces.**
- C. FERROUS METALS: Clean free of oil and surface contaminants with non-petroleum based solvent. Prime all bare metal surfaces with a good quality rust inhibiting primer prior to application of any Textured Acrylic Coating materials. Test adequacy of adhesion of primer to substrate prior to application of texture coating. Be sure to document results.
- D. GALVANIZED SURFACES: Clean free of oil and surface contaminants with non-petroleum based solvent. Prime with good quality primer designed for galvanized metal surfaces. Test adequacy of adhesion of primer to substrate prior to application of texture coating. Be sure to document results.

- E. EXISTING PAINTED SURFACES: Clean surface with a mix of household ammonia and water (1 part ammonia to 3 parts water) to remove oils, dust, etc. Lightly sand surface to improve adhesion (total removal of gloss is not necessary). Test adequacy of adhesion of primer to substrate prior to application of texture coating. Be sure to document results. All previously painted surfaces must be sound with the paint firmly adhered. Test adhesion of paint to substrate prior to application of texture acrylic coating. Be sure to document test results.

3.03 MATERIALS PREPARATION:

- A. STIR MATERIALS before application with a power drill and a drywall compound paddle. Stir at approximately 350 RPM for three minutes while removing material from all sides and bottom of the container. Stir only as much material as will be used in a four (4) hour period or re-stir material left sitting in excess of four hours. RETAIN LID on containers until the material is in actual use. If hardened material accumulates on the sides of the container, remove the material to a clean container before use.
- B. THINNING: Thinning may be done with small amounts of clean water. See manufacturer's written instructions for thinning information.

3.04 APPLICATION:

- A. GENERAL: Apply coating materials in accordance with the manufacturer's instructions and recommendations as required to achieve the appearance of the approved samples and performance as specified herein. Coating materials shall be used as a system that may include primers or under coatings as required by the manufacturer's installation directions.
- B. FINAL DRY FILM thickness shall be a minimum average of 20 mils. Coat surfaces behind movable equipment and furniture same as similar exposed surfaces.

(NOTE TO SPECIFICATION WRITER: Some finishes require Primer that is supplied with the kit of materials. Other finishes use Undercoat that serves as both primer and base coat for the finish. Select either C. or D. or both C & D below for the particular finish or finishes selected for the work, but note that Primer and Undercoat are never used on the same area.)

- C. FOR FINISHES WHICH REQUIRE PRIMER: Apply acrylic coating manufacturer furnished PRIMER with a 1/4 to 3/8 inch nap paint roller at a coverage rate of 240 square feet per gallon. Allow to cure until firmly set (normally 1 to 2 hours).
- D. FOR FINISHES WHICH REQUIRE UNDERCOAT: Apply factory supplied UNDERCOAT at a rate of 270 square feet per 60 pound net pail. Apply with a texture sprayer to achieve visible coverage. Wet film material should be

approximately 20 mils thick. Apply UNDERCOAT to a uniform level finish without holidays or runs.

- E. APPLY FINISH COAT(S) in accordance with manufacturer's instructions and all finishes match quality samples previously approved by Architect.

3.05 CLEANUP AND PROTECTION:

- A. CLEANUP: During progress of work, remove from site discarded coating materials, rubbish, cans, and rags at the end of each work day in compliance with all local, state, and federal requirements.
- B. PROTECTION: Protect work of other trades, whether to be coated or not, against damage by coating work. Correct any damage by cleaning, repairing or replacing, and refinishing, as acceptable to Architect. Provide signs, barricades, etc. as required to protect new Textured Acrylic Coating work from damage by others (see Section 1.07-B of this Division for protection times)
- C. AFTER COMPLETION of work of all other trades, remove all protection materials (including other trades' if provided by them) and clean/touch up as necessary to restore coating work to new and unblemished condition.