

# **DUROPLEX<sup>®</sup> - EXT**

**Textured Acrylic Coating  
For Exterior Wall Finishes**

**TRIARCH**  
FINE ARCHITECTURAL FINISHES

**T305**

## **DUROPLEX<sup>®</sup> - EXT**

### **Guide Specifications**

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Guide Specifications**

**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.**

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**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. (4.)

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

## PART 1 – GENERAL

### 1.01 SUMMARY

- A. This document is intended to be used in preparing specifications for projects utilizing CT100™ as manufactured by TRIARCH, 1-800-537-6111, [www.triarchinc.com](http://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.
- B. WORK SCOPE: EXTENT of special acrylic exterior coating work is indicated on drawings and schedules, as herein specified.
- C. WORK INCLUDES masking, protection of adjacent surfaces, priming, finishing, and cleanup of all coated areas throughout the project as designated on the drawings and finish schedules, except as otherwise specifically indicated.
- D. (Write a general description of the scope of work) "ACRYLIC EXTERIOR COATING" as used herein means specialty texture acrylic exterior coatings having a minimum thickness of 25 mils, and meeting the minimum performance specifications stated herein.
- E. WORK SPECIFIED IN OTHER SECTIONS: Paint, stain, primer, other specialty coatings, fire proofing tile, masonry, pre-finished panels, stains, preservative treatments, shop applied finishes, etc.

### 1.03 QUALITY ASSURANCE

- A. COMPATIBILITY: Provide primers and other undercoat materials which are produced or are specifically recommended by the same manufacturer as the finish materials to ensure compatibility of the system. Use thinners approved by the coating manufacturer, and use only within recommended limits.
- B. QUALIFIED APPLICATOR: Applicator should submit to Architect documentation indicating that applicator attended a factory product application session and otherwise be qualified to apply the products.
- C. COORDINATION OF WORK: Review other sections of these specifications in which prime paints, raw substrates, or other substances might be present to ensure compatibility of total coatings systems. Upon request from other trades,

furnish information or characteristics of coating materials provided for use, to ensure compatible substrate materials and finishes are used.

**1.04 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.
- B. **SUBMIT** samples of special coating applied to substrates of materials similar to jobsite. Samples shall be applied by contractor that is to do the work as an example of contractor's work.
- C. **ON** concrete masonry provide two 8"X8" square samples of masonry for each color/texture.
- D. **ON** actual wall surfaces and other building components, duplicate finishes as selected on at least 100 sq. ft. of surface, as directed, until acceptable sample is obtained; simulate finished lighting conditions for review of in-place work.
- E. **FINAL** acceptance of finish will be from samples applied on the job.
- F. **OTHER** manufacturer's products which comply with the above qualitative and selection requirements may be considered by Architect provided such products are submitted to Architect for review prior to bidding and with sufficient time allowed for evaluation prior to bidding. Submit proposed substitute products with supporting documentation to verify conformance with the above requirements.

**1.06 DELIVERY AND STORAGE**

- A. **DELIVER MATERIALS** to jobsite in 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.
- C. **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 containers high. Protect from fire hazards.

**1.07 JOB CONDITIONS**

- A. **APPLY** materials only when surface, air, and coating material temperature is between 60 and 100 degrees F.

- 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.
- C. REMOVE masking tape and clean all adjacent surfaces at the end of each workday. Do not leave masking tape or waste materials in place for more than thirty-six hours.

## PART 2 - PRODUCTS

MANUFACTURER: Provide DUROPLEX® EXT (exterior) products as manufactured by TRIARCH, 1-800-537-6111, www.triarchinc.com. Texture to be: aaaaaa.cs# xxxxx.xx

### 2.01 MATERIALS

Material Quality: Finished and fully cured (28 days) materials should have the following minimum performance characteristics:

ASTM-E84 Flame Spread	8.5 or less ASTM-E84
Smoke Contribution	7.0 or less
Federal Aviation Agency Vertical Burn Test #FAR 25.853 (b)	0.1 seconds or less
Scrubability: Two hundred strokes of stiff brush with soap and water	0.001 inches erosion or less

#### **Solvent Resistance:**

Water	<b>(1 hour soak)</b> no change
Detergent	no change
Ethanol	no change
Naphtha	slight softening
Ammonium Hydroxide	slight softening
Ethylene Glycol	no change
Bleach (household)	slight softening
409 Cleaner	slight softening
Paint Remover	surface softening
Mineral spirits	no change

#### **Stain Resistance:**

	<b>(1 hour soak and wash with 409 Cleaner and water)</b>
Water	no stain visible
Blood	no stain visible
Urine	no stain visible
Coffee	no stain visible
Tea	no stain visible
Blueberry	no stain visible
Mustard	no stain visible

<b>Mildew Resistance:</b>	No visible mildew after incubation for thirty days in 95 degrees F. and 90% relative humidity under high contamination conditions.
<b>Color Pigments:</b>	All pigments shall be lead free, pure, non-fading.
<b>Color Selection:</b>	Provide at least sixty factory colors and factory custom color service.
<b>Texture Selection:</b>	Provide texture as specified
<b>Warranty:</b>	5 year coatings integrity

## PART 3 - EXECUTION

### 3.01 SURFACE PREPARATION

- A. GENERAL: Perform preparation and cleaning procedures in accordance with manufacturer's recommendations and as herein specified, for each particular substrate condition.
- B. PROVIDE masking or other protection prior to surface coating operations. Remove protection immediately following completion of each area.
- C. CLEAN surfaces to be coated before applying any materials. Remove dust, latency, form release agents, grime, dirt, oil and grease prior to application of any coating. Program cleaning and coating so that contaminants from cleaning process will not fall into wet or newly coated surfaces.
- D. CEMENTITIOUS SUBSTRATES: Prepare cementitious surfaces such as concrete, concrete block, cement plaster, and etc. by cleaning as noted above; then patch all major holes, honeycombs, etc. using structural grout as specified in the specific Division of these specifications. Then grind, fill, and float smooth all form seams and other minor imperfections using SKIMM® as manufactured by Triarch Industries. Allow SKIMM® to dry 24 hours. Apply DUROPLEX® PRIMER (or PRIME-1 by Triarch for finishes requiring UNDERCOAT) directly to the prepared concrete surface. Concrete block, however, requires further preparation. Test adequacy of adhesion of primer to substrate prior to application of Duroplex-EXT. Be sure to document results.
- E. UNPAINTED CONCRETE BLOCK: Apply one coat of SKIMM® ADDITIVE IN PORTLAND CEMENT and sand mixture to concrete block prior to application of

DUROPLEX-EXT PRIMER OR PRIME-1: Mix 1 cu. ft. Portland and 5 cu. ft. clean, washed, white sand. Add 2 1/2 gallons of clean water and one 5 gallon container of SKIMM®. Apply within 1/2 hour of mixing. Test adequacy of adhesion of primer to substrate prior to application of Duroplex-EXT. Be sure to document results.

- F. **PAINTED (OR FILLED) CONCRETE BLOCK:** Apply SKIMM® as manufactured by Triarch Industries using an 8" broad-knife to eliminate all visible mortar joints and other imperfections visible through the existing coating. Allow SKIMM® to cure at least twenty four hours or until hard prior to application of DUROPLEX-EXT. Test adequacy of adhesion of primer to substrate prior to application of Duroplex-EXT. Be sure to document results.
- G. **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 acrylic coating materials. Test adequacy of adhesion of primer to substrate prior to application of Duroplex-EXT. Be sure to document results.
- H. **GALVANIZED SURFACES:** Clean free of oil and surface contaminants with non-petroleum based solvent. Test adequacy of adhesion of primer to substrate prior to application of Duroplex-EXT. Be sure to document results.

### **3.02 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 hour period or re-stir material left sitting in excess of four hours. **RETAIN LID** on containers until the material is in actual use. Do not leave containers open for more than one hour. If hardened material accumulates on the sides of the container, remove the material to a clean container before use.
- B. **THINNING:** Coating materials come premixed wet and with color already in the container. Should storage or shipping expose materials to excessively high or low temperatures, viscosity may be affected. Thinning may be done with small amounts of water. See manufacturer's written instructions for thinning information. Materials which have been thinned by excess heat may be corrected by allowing the temperature to stabilize below 80 degrees F.

### **3.03 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.

- B. SURFACE treatments, and finishes, are indicated in "schedules" of the contract documents. Final finishes shall conform to the approved samples.
- C. FINAL dry film thickness shall be a minimum average of 25 mils. Coat surfaces behind movable equipment and furniture same as similar exposed surfaces.
- D. ALL DUROPLEX®-EXT FINISHES REQUIRE EITHER DUROPLEX® PRIMER OR PRIME-1 and UNDERCOAT, depending upon finish selection. (Not both)
- E. FOR FINISHES THAT 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 (usually 1 to 2 hours).
- F. FOR FINISHES WHICH REQUIRE UNDERCOAT: Apply Prime-1 at 300 square feet per gallon. Let dry. Apply factory supplied UNDERCOAT at a rate of 250 square feet per five gallon pail. Apply with a hopper spray to achieve visible coverage. Wet film material should be approximately 20 mils thick. Apply Undercoat to a uniform level finish without holidays or runs.
- G. APPLY FINISH COAT(S) in accordance with manufacturer's instructions until all finishes match quality samples previously approved by Architect.
- H. COMPLETED WORK shall be uniform in appearance and coverage. It shall be free of holidays, spotting, laps, tool marks, runs, sags, or other surface imperfections.

### **3.04 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.
- C. Provide signs, barricades, etc. as required to protect new work from damage by others (see General section of this division for curing times).
- D. After completion of work of all other trades, remove all protection materials (including other trades' if provided by them) and clean/touchup as necessary to restore coating work to new and unblemished condition.