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CSI Format Guide Specification

Scuffmaster™ Armor™ Finish System

Section 09960

Paints and Coatings – High Performance Coatings

Summary: Scuffmaster Armor is an exceptionally durable and cleanable multi-tone or tone-on-tone paint finish system for walls. Finish system components are formulated with crosslinked polyurethane coatings, resulting in a lower life cycle cost than standard acrylic latex paints because of less damage from abrasion and increased ease of cleaning. Scuffmaster Armor textured finish is known as *The World's Toughest Paint* because the formulation is fortified with Dupont Kevlar® and will withstand more than 25,000 ASTM scrub test cycles (vs. only 3,900 for the leading water-based textured competitor). All Scuffmaster finishes are created with water-based coatings for low VOCs and convenient low-odor application. In addition, all Scuffmaster finish products have a Class A or Type I fire rating.

Applicators: Refer potential bidders to MCT at (800) 898-0219 for information and the names of applicators in the project area.

Design Assistance: For complete product information and/or standard color samples, please contact your Scuffmaster distributor (visit www.scuffmaster.com for a listing) or MCT at (800) 898-0219 or fax (612) 722-8853.

Drawing Coordination: Show extent of surfaces to receive Scuffmaster Armor finishes on drawings and/or room finish schedule.

Specification Coordination: Add, delete or modify language as required. Coordinate this section with related sections and with bidding and contract requirements.

The following should be noted when using this guide specification:

- Optional text requiring a selection by the user is enclosed within brackets, e.g.: “Section [01340] [_____].”
- Items requiring user input are enclosed within brackets, e.g.: “Section [_____ - _____].”
- Optional paragraphs are separated by an “OR” statement.

This Guide specification is subject to change without notice.

PART 1 – GENERAL

1.01 SECTION INCLUDES

- A. Water-based polyurethane/acrylic textured paint finish system.
- B. Surface preparation.

1.02 RELATED SECTIONS

Include sections specifying the work affecting Scuffmaster finishes. Edit list according to project requirements.

- A. Section [03200] [_____] – Cast-in-Place Concrete: Preparation of substrates.
- B. Section [04200] [_____] – Unit Masonry: Preparation of substrates.
- C. Section [06200] [_____] – Finish Carpentry: Preparation of substrates.
- D. Section [06400] [_____] – Architectural Woodwork: Preparation of substrates.
- E. Section [09250] [_____] – Gypsum Board Systems: Preparation of substrates.
- F. Section [_____ - _____]: Preparation of substrates.

1.03 PERFORMANCE

- A. VOC: Coatings shall have less than 150 g/L of volatile organic compounds.
- B. Fire Rating: Coatings shall be Type I or Class A fire rated. ASTM E-84-91a
- C. Scrub Test: >25,000 cycles. ASTM D2486
- D. Impact Resistance: >160 in/lbs. ASTM D2794
- E. Chemical Resistance: “10” (test maximum) for all chemicals tested. ASTM D1308
- F. QUV Accelerated Weathering: >95% gloss retention after 500 hours. ASTM G53
- G. Stain Removal: “8”–“10” (test maximum) for all stains tested. Four-hour Open Spot Test

1.04 QUALITY ASSURANCE

Contact your Scuffmaster distributor or MCT at (800) 898-0219 for Scuffmaster applicators in your area.

- A. Applicator Qualifications: Professional commercial applicators. Call MCT at (800) 898-0219 for details prior to bidding this work.

Benchmark samples are recommended so that full-size field samples can be approved for aesthetic control.

- B. Benchmark Samples:
 - 1. Prepare a benchmark sample as per PDCA P5-94.
 - 2. Apply [100] [___] square feet of finish system at location on project as directed by [Architect] [_____]. [Provide separate benchmark sample for each finish color.]
 - 3. If accepted, benchmark sample will demonstrate minimum standard for the work. Benchmark sample may remain as part of the work.

1.05 SUBMITTALS

- A. Submit under provisions of Section [01300.] [01340.]
- B. Submit acknowledgement that equipment to be used is approved by finish system manufacturer. Call MCT at (800) 898-0219 for details prior to bidding this work.
- C. Product Data: Submit manufacturer's product data and installation instructions.
- D. Finish Samples: Submit [two] [] of the following:
 - 1. Sample card indicating manufacturer's standard selection of Armor finish colors.

Retain above if finishes are specified "to be selected." Retain below to verify specified or selected finish colors.

- 2. Samples: 4x5 inches of cardboard with [specified] [selected] finish colors.
- 3. Control Samples: Submit a spray-out of each finish color to ensure ability to reproduce selected finishes.

1.06 DELIVERY, STORAGE AND HANDLING

- A. Comply with Section [01600.] [01610.]
- B. Deliver materials in unopened containers with manufacturer's labels intact.
- C. Protect materials from freezing.
- D. Store between 50° and 80° F.

1.07 PROJECT CONDITIONS

- A. Apply coatings only under the following conditions:
 - 1. Air temperature: Between 50° and 80° F. Relative humidity: less than 50%.
 - 2. Prevent wide temperature fluctuations that could cause moisture condensation on freshly coated surfaces.
 - 3. Application areas free of excessive dust.
- B. Lighting: Maintain minimum [80] [] foot candles on surfaces to be coated.
- C. Provide adequate fresh air and ventilation during application.

1.08 MAINTENANCE MATERIALS

Scuffmaster textured finishes are exceptionally durable, scrubable and cleanable. However, walls may still become damaged. MCT recommends that your specification include provisions for extra material from the same production lot as the original materials for future touch-up or spray repairs. You may specify your instructions here.

- A. Extra Stock: Provide [one] [five] [] gallons of each base coat color used and [one] [five] [] gallons of each pattern coat color used. Provide in sealed, labeled containers.

PART 2 – PRODUCTS

2.01 MANUFACTURER

- A. Master Coating Technologies (MCT). Telephone: (800) 898-0219. Fax: (612) 722-8853.

Special coating substitutions require careful evaluation of performance and appearance, as well as coordination with affected work. Coordinate the following with Division One and bidding requirements.

- B. Substitutions: Under provisions of Section [01600.] [01630.]
1. Submit proposed substitution to [Architect] [_____] no fewer than 10 days before bid date. Acceptance will be by Addendum.
 2. Submit finish samples to match color of specified finishes, product data, installation instructions, test reports, and [_____]. Clearly indicate discrepancies between specified product and proposed substitution.

2.02 MATERIALS

- A. Primer: Provide primer recommended by manufacturer for substrate.
1. [Concrete] [and] [Masonry]: [Suitable heavy-bodied latex vinyl-acrylic block filler (if filling pores is desired)]. [Primemaster Primer/Sealer from Scuffmaster if uniform base color with pores exposed is desired].
 2. [Primed Metals]: No primer required.
 3. [Unprimed Metals]: Depends on metal type. Call MCT at (800) 898-0219.
 4. [New Gypsum Board]: Primemaster Primer/Sealer from Scuffmaster.
 5. [Ceramic Tile] [and] [Glazed Block]: Primemaster Bonding Primer from Scuffmaster.

For other substrates, contact your Scuffmaster distributor or MCT at (800) 898-0219 for recommended primers. Submit sample of vinyl wallcoverings or plastics for evaluation.

6. [Vinyl Wallcovering] [and] [Plastic]: [_____]. Contact MCT at (800) 898-0219.
- B. Textured finish system components:
1. Scuffmaster PC200 water-based polyurethane/acrylic base coat and crosslinker.
 2. Scuffmaster AC1200 water-based polyurethane/acrylic pattern coat and crosslinker.
 3. Miscellaneous Materials: Surface patching compounds and other materials necessary for application of finish system shall be of high quality and compatible with coating system.

2.03 EQUIPMENT

Proprietary equipment for spraying pattern coat materials is available from Scuffmaster distributors. Contact MCT at (800) 898-0219 for information.

- A. Spray or roll primers and base coats in accordance with manufacturer's instructions.
- B. Spray pattern coats using manufacturer's proprietary spray equipment only. Contact local Scuffmaster distributor or MCT at (800) 898-0219 before bidding this work.

PART 3 – EXECUTION

3.01 EXAMINATION

- A. Verify that substrates are ready to receive work of this Section and are in a condition that is in accordance with manufacturer's requirements.
- B. Beginning application of materials signifies acceptance of substrates.

3.02 PREPARATION

- A. Protection: Mask adjacent surfaces to protect from over-spray. Protect floors and other surfaces with drop cloths.
- B. Remove items which are not to be coated from surfaces that are to be coated. Tag and protect removed items and store until reinstallation. Reinstall items after completion of coating application. Items which are not to be coated include: [Operating Hardware], [Electrical Device Plates] and [Factory Finished Items].
- C. Patch and repair substrates as specified in applicable Specifications Sections. Clean substrates: remove dirt, grit, loose materials, grease, oil, temporary protective coatings, contamination, other foreign materials and [_____]. Sand with 100 grit or finer sand paper, spackle, putty and caulk existing surfaces to produce smooth and uniform substrates. Spot-prime all existing water-soluble stains with alcohol or oil-based stain killing primer. Touch-up painted or primed surfaces with compatible paint or specified primer.
- D. Concrete: Remove high spots, fill holes and clean surfaces as specified in Section [03200.] [_____]. Allow new concrete to cure a minimum of 28 days prior to application of coatings.
- E. Masonry: Tool joints and clean surfaces as specified in Section [04200.] [_____] Rinse off cleaning solutions and allow surface to dry. Allow new mortar to cure a minimum of 28 days prior to coating.
- F. Ferrous Metals: Remove rust and mill scale. Wire brush or sand damaged or rusted areas to bright metal. Remove grease and other foreign materials with mineral spirits. Touch-up damaged areas of shop primer.
- G. Aluminum: Thoroughly degrease using non-hydrocarbon solvent cleaner. Etching is recommended before priming if possible. As an alternative, use a wash primer prior to the paint application.
- H. Non-Ferrous Metals: Clean with lacquer thinner.
- I. Wood: Sand smooth and free of marks as specified in Section [06200.] [_____] Wash sap spots and knots with mineral spirits. When dry, cover spots and knots with two coats of shellac.
- J. Plaster: Allow new plaster to cure a minimum of 28 days prior to coating.
- K. Gypsum Wallboard: Apply joint tape and compound to joints, fastener heads, dents and surface flaws as specified in Section [09250.] [_____] Sand smooth and flush with adjacent surfaces. Thoroughly clean sanded areas of dust with a clean damp rag.
- L. [Ceramic Tile] [and] [Glazed Block]: Thoroughly clean off oil, wax, grease and other residues. De-gloss with either mechanical abrasion or chemical etch. Remove sanding dust with a clean, wet rag.
- M. Vinyl Wallcovering: Contact MCT at (800) 898-0219.
- N. Previously painted Surfaces: De-gloss (if necessary) and re-prime all previously painted substrates with Primemaster Primer/Sealer from Scuffmaster.

Other Substrates: Contact MCT at (800) 898-0219 for preparation recommendations. Scuffmaster finishes are not recommended for shower stalls, floors, other horizontal surfaces or areas subject to extremely heavy abuse. String patterns may not be possible to apply on ceilings.

- O. [_____]: [_____].

3.03 APPLICATION

- A. Professional commercial applicator to apply coatings in accordance with manufacturer's instructions and using manufacturer-approved equipment.
 - 1. [Closets and storage areas shall be finished inside in the same manner as adjoining rooms.]
 - 2. Finish [HVAC registers and grilles] [and] [] located in surfaces to receive coatings.
- B. Primers: Apply as many coats as necessary to produce a uniform substrate appearance. Do not exceed manufacturer's recommended coverage rate. Allow to dry prior to application of subsequent coats.
- C. Re-prime suction and hot spots on substrate prior to applying base coatings.
- D. Sand: Over [wood] [and] [gypsum board], sand primer with 100 grit or finer sand paper. Thoroughly remove dust from sanding with a clean, wet rag.
- E. Textured finish system: Apply in two steps.
 - 1. Spray or roll base coats to completely cover primer and according to manufacturer's instructions. Apply in a continuous even film at manufacturer's specified coverage rate.
 - 2. Spray pattern coat using manufacturer's proprietary spray equipment. Contact MCT at (800) 898-0219 before bidding this work. Adjust spray tip size and air pressure for specified finish according to manufacturer's instructions. Apply pattern coat uniformly to match approved finish standard and at manufacturer-specified coverage rates. Slight variations in particle size, shape and density are normal for textured coatings.
- F. Apply each coat to a natural break point such as an edge or corner without stopping.
- G. Finishes shall match approved benchmark samples and shall be free of runs, sags, holidays and excessive irregularity/unevenness of pattern coat. Transitions between colors and/or other materials shall be sharp, clean and without overlaps.

3.04 INSPECTION

- A. Request acceptance of each coat before applying succeeding coats.
- B. Touch up and repair unacceptable work.
- C. Protect finished areas from damage.

3.05 CLEANING

- A. Clean over spray and spills. Remove masking.
- B. Repair damage to coatings and surfaces caused by clean-up activities.

3.06 COATING SCHEDULE

- A. Scheduled number of coats is in addition to surface preparation specified above.

Refer to coating schedule included in the MCT Scuffmaster Finish Data for the type of Scuffmaster finish being specified. Edit the following paragraph to include only those surfaces applicable to the project. Call MCT at (800) 898-0219 for assistance.

- B. Substrate Type []:
 - 1. Primer: [See Finish Data Sheet]
 - 2. Base Coat: Scuffmaster PC200
 - 3. Pattern Coat: Scuffmaster AC1200

3.07 FINISH STYLE/COLOR SCHEDULE

Utilize the Section to specify styles and colors if not indicated on drawings or in the room finish schedule.

- A. Color/Finish No. [Surface No.]: Scuffmaster Armor – [Color No.]
- B. Color/Finish No. [Surface No.]: Scuffmaster Armor – [Color No.]
- C. Color/Finish No. [Surface No.]: Scuffmaster Armor – [Color No.]

END OF SECTION