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GUIDE SPECIFICATIONS
SECTION 09 94 19
METAL™ by ZOLATONE®
SPECIALTY WALL FINISH

Metal™ is a spray-applied, water-based interior finish with a soft metallic luster. So much more than paint, the look is solid, formidable and architectural.

Metal™ has low VOC content, breathable film, and active biocides to resist the growth of mold and mildew on the paint film making it a truly green design option. Especially well suited for application in healthcare, hospitality, and any other commercial facilities with continuous occupancy, Metal™ can also assist in achieving LEED Credit #4.2, Low Emitting Materials: Paints and Coatings, in the Indoor Environmental Quality Section of the LEED 2.1 Green Building Rating System.

Metal complies with all federal air pollution regulations for volatile organic compounds.

Specification Coordination: Edit this guide specification according to project requirements. Add, delete, or modify text as required. Coordinate this Section with related sections and with Bidding and Contract requirements. This guide specification can be accessed on our web site, www.zolatone.com.

Drawing Coordination: Show extent of surfaces to receive Metal™ on the Drawings or Room Finish Schedule.

Design Coordination: For complete product information and samples, contact your local Zolatone representative or contact Zolatone directly at 800-765-6699, Fax 651-414-6266, or write, Master Coating Technologies 2777 Eagandale Blvd., Eagan, MN 55121.

SECTION 09 94 19

SPECIALTY WALL FINISH

PART 1 GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General Conditions, Division 01 - General Requirements, and other applicable specification sections in the Project Manual apply to the work specified in this Section.

1.02 SUMMARY

- A. **Scope:** Provide labor, material, equipment, related services, and supervision required, including, but not limited to, manufacturing, fabrication, erection, and application for specialty wall finishes as required for the complete performance of the work, and as shown on the Drawings and as herein specified.
 - 1. Provide a water-based single component specialty wall finish in a single can that shall be spray-applied. Product shall meet or exceed applicable LEED standards, and shall meet or exceed values indicated in the Performance Paragraph. Product shall contain anti-microbial product that shall fight mold and mildew build-up on the dried paint film.
- B. **Related Sections:** Related sections include, but shall not be limited to, the following:
 - 1. Section 03 30 00 - Cast-in-Place Concrete.
 - 2. Section 03 40 00 - Precast Concrete.
 - 3. Section 04 20 00 - Unit Masonry.
 - 4. Section 09 20 00 - Lath and Plaster.
 - 5. Section 09 29 00 - Gypsum Board.
 - 6. Section 09 90 00 - Painting.
 - 7. Section 09 96 59 - Glazed Wall Coatings.

1.03 REFERENCES

- A. **General:** The publications listed below form a part of this Specification to the extent referenced. The publications are referred to in the text by the basic designation only. The edition/revision of the referenced publications shall be the latest date as of the date of the Contract Documents, unless otherwise specified.
- B. **ASTM (ASTM)**
 - 1. ASTM D 522, "Standard Test Methods for Mandrel Bend Test of Attached Organic Coatings."
 - 2. ASTM D 523, "Standard Test Method for Specular Gloss."
 - 3. ASTM D 1308, "Standard Test Method for Effect of Household Chemicals on Clear and Pigmented Organic Finishes."
 - 4. ASTM D 1653, "Standard Test Methods for Water Vapor Transmission of Organic Coating Films."
 - 5. ASTM D 2486, "Standard Test Method for Scrub Resistance of Interior Latex Flat Wall Paints."
 - 6. ASTM D 2574, "Standard Test Method for Resistance of Emulsion Paints in the Container to Attack by Microorganisms."
 - 7. ASTM D 2794, "Standard Test Method for Resistance of Organic Coatings to the Effects of Rapid Deformation (Impact)."

8. ASTM D 3273, "Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber."
9. ASTM D 3278, "Standard Test Methods for Flash Point of Liquids by Small Scale Closed-Cup Apparatus."
10. ASTM D 3359, "Standard Test Method for Measuring Adhesion by Tape Test."
11. ASTM D 3363, "Standard Test Method for Film Hardness by Pencil Test."
12. ASTM D 3456, "Standard Practice for Determining by Exterior Exposure Tests the Susceptibility of Paint Films to Microbiological Attack."
13. ASTM D 3960, "Standard Practice for Determining Volatile Organic Compound (VOC) Content of Paints and Related Coatings."
14. ASTM D 4060, "Standard Test Method for Abrasion Resistance of Organic Coatings by the Taber Abraser."
15. ASTM E 84, "Standard Test Method for Surface Burning Characteristics of Building Materials."
16. ASTM G 53, "Standard Practice for Operating Light- and Water-Exposure Apparatus (Fluorescent UV - Condensation Type) for Exposure of Non-Metallic Materials."

C. **South Coast Air Quality Management District (SCAQMD):**

1. SCAQMD Rule #1168, "Adhesive and Sealant Applications," including most recent amendments.

D. **SSPC: The Society for Protective Coatings (SSPC):**

1. SSPC SP-3, "Surface Preparation Specification No. 3, Power Tool Cleaning."

1.04 SYSTEM DESCRIPTION

A. **Performance:**

1. **Abrasion Resistance:** 168 mg loss/1000 cycles/100 gram weight, ASTM D 4060.
2. **Accelerated Weathering:** 200 hours exposure to UV light in QUV chamber showed no chalking, no chalking, excellent film integrity, ASTM G 53.
3. **Adhesion Over Primed Surfaces:** Good, ASTM D 3359.
4. **Bacterial Inhibition:** No growth, ASTM D 3456.
5. **Continuous Color:** Complete integration of color particles within and throughout the paint finish.
6. **Coverage:** Up to 90 square feet per gallon (2.2 square meters per liter) to 110 square feet per gallon (2.6 square meters per liter) pending pattern size, surface porosity, and method of application.
7. **Fire Safety:** Class A fire-rated, ASTM E 84.
8. **Flashpoint:** Does not burn, ASTM D 3278.
9. **Flexibility:** No cracking of film when bent around a 1/8 inch (3 mm) mandrel, ASTM D 522.
10. **Hardness, Pencil:** HB, ASTM D 3363.
11. **Impact Resistance:** Pass, 80 lbs. in., no visible cracking (over bonderite steel panel), ASTM D 2794.
12. **Mildew and Fungal Resistance:** Visually no growth, ASTM D 3273.
13. **Permeability:** 6.1 perms (with 100 percent acrylic primer), ASTM D 1653.
14. **Resistance of Emulsion Paint in the Container to Attack by Micro-Organism:** No growth, ASTM D 2574.
15. **Resistance to Common Cleaners and Disinfectants:** Resistant to 10 percent detergent and liquid cleaners (finish shall appear milky when wet, but shall return to original state when dry), ASTM D 1308.
16. **Scrubability:** 3000 cycles (slight wear), ASTM D 2486.
17. **Specular Gloss:** Maximum of 10 at 60 degrees, ASTM D 523.
18. **Stain Resistance:** Resistant to catsup, butter, orange juice, soda, vegetable oil, 3 percent vinegar, and motor oil, ASTM D 1308.

19. **VOC:** Less than 100 grams/liter, ASTM D 3960.

1.05 SUBMITTALS

- A. **General:** See Section 01 33 00 - Submittal Procedures.
- B. **Product Data:** Submit product data showing material proposed. Submit sufficient information to determine compliance with the Drawings and Specifications. Product data shall include, but shall not be limited to, manufacturer's product data and application instructions.
- C. **Samples:**
1. **Color Samples:** Submit two samples of each color (5 inches [127 mm] by 8 inches [203 mm]).
 2. **Control Samples:** Submit a spray-out with each batch of finish coat to demonstrate that batches match approved samples.
- D. **Quality Control Submittals:** Submit letter from manufacturer stating that applicator has completed manufacturer's training program.
- E. **LEED Submittals:** Submittals that are required to comply with requirements for LEED certification include, but shall not be limited to, the following:
1. **Regional Materials:** Provide product data for regional materials indicating location and distance from the Project of material manufacturer and point of extraction, harvest, or recovery for each raw material. Distance shall be within 500 miles (805 Km) of the Project Site. Include statement indicating cost for each regional material and, if applicable, the fraction by weight that is considered regional.

Above applies to Credit MR 5.1 and MR 5.2. Below applies to Credits EQ 4.1 (Adhesives and Sealants) and EQ 4.2 (Paints and Coatings).

2. **Low-Emitting Materials:** Submit certification by the manufacturer confirming that products (i.e., adhesives, sealants, paints, coatings, etc.) meet or exceed the volatile organic compound (VOC) limits set by specific agencies or other requirements as outlined in LEED Green Building Rating System. VOC limits shall be clearly stated in the submittal.

1.06 QUALITY ASSURANCE

- A. **Qualifications:**
1. **Manufacturer Qualifications:** Manufacturer shall be a firm engaged in the manufacture of specialty wall finish of types and sizes required, and whose products have been in satisfactory use in similar service for a minimum of five years.
 - a. Manufacturer to certify they make all materials in this Section.
 - b. All materials within special coatings section including, but not limited to, finishes, and primers shall be supplied by one manufacturer.

Contact Zolatone or your local Zolatone representative for names of trained applicators in your Project area.

2. **Applicator Qualifications:** Recommended that Applicator shall be a firm with experience of successful applications/experience with projects utilizing specialty wall finishes similar in type and scope to that required for this project.

- B. **Regulatory Requirements:** Comply with applicable requirements of the laws, codes, ordinances, and regulations of Federal, State, and local authorities having jurisdiction. Obtain necessary approvals from such authorities.
- C. **Fire Ratings:** Provide Class A fire hazard classification, test procedure ASTM E 84.
- D. **Mock-Ups:** Prior to application of the work, fabricate and erect mock-ups for each type of finish and application required to verify selections made under sample submittals and to demonstrate aesthetic effects as well as qualities of materials and execution. Build mock-ups to comply with the following requirements, using materials indicated for final unit of work.

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

- 1. Minimum 100 square foot (9.3 square meter) mock-up application of specified coating system on each type of surface. Provide separate mock-up for each color blend.
 - 2. Upon acceptance by the Architect, mock-ups shall serve as standard for the work.
 - 3. Mock-up shall remain as part of the completed Project.
- E. **Pre-Application Conference:** Conduct pre-application conference in accordance with Section 01 31 19 - Project Meetings. Prior to commencing the application, meet at the Project site to review the material selections, application procedures, and coordination with other trades. Mock-ups shall be reviewed during the pre-application conference. Pre-application conference shall include, but shall not be limited to, the Contractor, the Applicator, manufacturer's representatives, and any trade that requires coordination with the work. Date and time of the pre-application conference shall be acceptable to the Owner and the Architect.

1.07 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials in their original, unopened containers bearing manufacturer's labels.
- B. Provide fire extinguisher in storage area. Do not leave containers open. Remove empty cans and rags with oil or solvent from building every day.
- C. Store between 50 degrees F (10 degrees C) and 85 degrees F (29 degrees C). Protect from freezing.

1.08 PROJECT CONDITIONS

- A. Apply coating under following conditions:
 - 1. Temperature of air and substrate is between 50 degrees F (10 degrees C) and 85 degrees F (29 degrees C).
 - 2. Temperature of substrate is above dew point.
 - 3. Substrate is dry to touch.
- B. Protect surfaces not to be coated.
- C. Provide adequate illumination.
- D. Provide adequate fresh air and ventilation during application.

1.10 MAINTENANCE MATERIALS

Metal specialty finishes are long-lasting, durable, and easy to clean. If coating does become damaged, it is easy to patch or re-coat. Touch-up materials and equipment are readily available, on large projects where the Owner intends to perform their own maintenance, extra stock and equipment can be specified here.

- A. **General:** Provide [one] [two] sheets of finishes “FastFix” samples for each color blend used.
- B. **Extra Stock:** Provide [1 gallon (3.8 l)] [5 gallons (18.9 l)] of each color blend used. Provide in sealed, labeled containers.
- C. **Equipment:** Provide manufacturer recommended touch-up equipment.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. **Basis of Design:** Products specified are those as manufactured by Master Coating Technologies. Items specified are to establish a standard of quality for design, function, materials, and appearance. Equivalent products by listed manufacturers are acceptable. The Architect will be the sole judge of the basis of what is equivalent.

2.02 MATERIALS

- A. **LEED Requirements:**
 - 1. **Regional Materials:** Provide a minimum of [10 percent (based on cost)] [and an additional 10 percent beyond Credit MR 5.1 (total of 20 percent, based on cost)], of building materials that are regionally extracted, processed, and manufactured.

Above applies to Credit MR 5.1 and MR 5.2. Retain first indicated option above for Credit MR 5.1, retain both options for Credit MR5.2. Below applies to Credits EQ 4.1 (Adhesives and Sealants) and EQ 4.2 (Paints and Coatings).

- 2. **Low-Emitting Materials:** Use adhesives, sealants, paints, coatings, etc., that comply with the specified limits for VOC content when calculated according to SCAQMD Rule #1168. See LEED Green Building Rating System for VOC content limits.
- B. **Primers, Sealers, and Fillers:** Provide primers recommended by manufacturer for substrates. Do not tint primers. Provide white only.
 - 1. **Gypsum Board Primer:**
 - a. **Basis of Design:** “SP203 Acrylic Drywall Primer,” Master Coating Technologies.
 - 2. **Block Filler:**
 - a. **Basis of Design:** Quality Block Filling Primer that accepts water-base top coat.
 - 3. **Water Base Primer:**
 - a. **Basis of Design:** “SP97 Multi-Purpose Waterbase Primer,” Master Coating Technologies.
 - 4. **Stain Blocker:**
 - a. **Basis of Design:** “SP97 Multi-Purpose Waterbase Primer,” Master Coating Technologies.
- C. **Intermediate and Finish Coats:** Finish shall be ready mixed; no tinting shall be required.
 - 1. **Basis of Design:** “Metal,” Master Coating Technologies.

2.03 EQUIPMENT

Equipment is available from your local equipment supplier.

- A. Apply with equipment recommended by coating manufacturer. Use conventional air spraying equipment with internal mix spray gun air cap; dual-regulated, ASME Code-certified 110 psi (758 kPa) tank, and compressor sized to provide necessary volume of air to spray gun on a continuous basis.

PART 3 EXECUTION

3.01 EXAMINATION

- A. **Verification of Conditions:** Examine areas and conditions under which the work is to be applied, and notify the Contractor in writing, with a copy to the Owner and the Architect, of any conditions detrimental to the proper and timely completion of the work. Do not proceed with the work until unsatisfactory conditions have been corrected.
 - 1. Verify that substrates are ready to receive work of this Section and are in accordance with coating manufacturer's requirements. Report any conditions that would adversely affect the appearance or performance of the coating systems.
 - 2. Beginning of the work shall indicate acceptance of the areas and conditions as satisfactory by the Applicator.

3.02 SURFACE PREPARATION

Coordinate preparation with other applicable specification sections.

- A. **General:**
 - 1. **Protection:** Prior to surface preparation and application operations, completely mask, remove, or otherwise protect hardware, accessories, plates, lighting fixtures, floors, and similar items in contact with or in the vicinity of coating surfaces, but not scheduled to receive special coating. Protect and store removed items. Re-install items after completion of coating application.
 - 2. **Cleaning:** Before applying special coating, thoroughly clean surfaces involved. Surfaces shall be clean, dry, and adequately protected from dampness. Surfaces shall be smooth, even and true to place, and free of any foreign material which will adversely affect adhesion or appearance of applied coating.
 - 3. **Moisture Levels:** Gypsum board, plaster, concrete, and masonry surfaces shall be tested with moisture testing device before coating is applied. No coating shall be applied when moisture content exceeds 12 percent, except as may be required by the manufacturer of the coating materials used.
 - 4. **Mildew:** Mildew shall be removed and neutralized.
 - 5. **pH:** pH of surface to be coated shall be under 10.
 - 6. **Priming:** Provide recommended primers for surfaces to receive special coating. The Contractor shall sand and re-prime all abrasions and damage spots in the surface of the primer before proceeding with subsequent finish coat.
- B. **Concrete:** Remove high spots, fill holes, and clean surfaces as specified in Section 03 30 00 - Cast-In-Place Concrete. Cure 28 days minimum before application of coating.
- C. **Masonry:** Tool joints and clean surfaces as specified in Section 04 20 00 - Unit Masonry. Rinse off cleaning solutions and allow surface to dry. Cure mortar 28 days minimum before application of coating.

- D. **Ferrous Metals:** Remove rust and mill scale. Shop-coated, unprimed, or damaged areas shall be cleaned to meet the requirements of the SSPC SP-3 and primed in accordance with these recommendations. 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.
- E. **Non-Ferrous Metals:** Clean with lacquer thinner.
- F. **Wood:** Sand smooth and free of marks. Wash sap spots and knots with mineral spirits. When dry, cover spots and knots with two coats of shellac.
- G. **Plaster:** Cure 28 days minimum before application of coating.
- H. **Gypsum Board:** Apply joint tape and compound to joints, fastener heads, dents, and surface flaws as specified in Section 09 29 00 - Gypsum Board. Prepare surface to a minimum Level 5 gypsum board finish. Use acrylic joint compound, lightweight muds may cause joint problems. Sand smooth and flush with adjacent surfaces.
 - 1. Prepare surface of moisture-resistant board to a minimum Level 5 gypsum board finish. Surface shall be completely primed with manufacturer's recommended stain blocker before general priming.
 - 2. Prepare surface of impact-resistant board to a minimum Level 5 gypsum board finish. Surface shall be completely primed with manufacturer's recommended stain blocker before general priming.
- I. **Ceramic Tile:** Clean tile and remove mildew. Scuff sand, apply manufacturer's recommended primer.
- J. **Vinyl Wall Coverings:** Verify that seams are laid down and firmly adhered. Prime with manufacturer's recommended primer. Check for intercoat adhesion and plastizer migration prior to applying topcoat.
- K. **Previously Painted Surfaces:** Thoroughly clean and dry surface to be re-coated. Sand lightly and remove sanding dust. Prime entire wall surface with manufacturer's recommended stain blocker before general priming.

For other substrates, contact Zolatone for preparation recommendations. This product is not recommended for exterior surfaces, floors, and surfaces subject to frequent water contact.

3.03 APPLICATION

- A. Follow manufacturer's recommendations and instructions carefully regarding special coating product so as to provide the best quality work.
- B. Equipment shall be kept clean and in proper working condition to provide best quality work as intended by this Section.
- C. Materials shall be applied under adequate illumination, evenly spread, and smoothly applied, free of runs, sags, holidays, lap marks, air bubbles, and pinholes to assure a smooth finish.
- D. Suction or hot spots shall be spot-primed prior to general priming.
- E. Apply as many primer coats as necessary to produce a white uniform substrate appearance. Do not exceed manufacturer's recommended coverage rate. Allow individual coats to dry prior to application of subsequent coats.

Select applicable material(s) below.

- F. Over [wood] [and] [gypsum board], sand primer with 100 grit or finer sandpaper. Remove dust.
- G. Apply special coating material by using two-step pressure differential spray technique, with variable control to assure uniform distribution and 100 percent full coat (continuous) coverage. Slight variations in pattern and texture are normal for coatings.
- H. Apply finish to "FastFix" sheets as well as the specified substrate. Insert finished sheets into manufacturer's maintenance manual or job close out package. Should any coat of coating be deemed unsatisfactory, it shall be sanded and additional coats applied.

3.04 INSPECTION

- A. Request acceptance of each coat before applying succeeding coats.
- B. Touch-up and repair work that is not acceptable to the Architect and request final acceptance.

3.05 CLEANING

- A. Remove paint spatters from adjoining surfaces.
- B. Repair any damage to coatings or surfaces caused by cleaning operations.
- C. Remove debris from job site and leave storage area clean.

3.06 PROTECTION

- A. Provide final protection and maintain conditions in a manner acceptable to the Applicator, that shall ensure that the specialty wall finishes shall be without damage at time of Substantial Completion.

3.07 REPAIR/MAINTENANCE

- A. **Maintenance:**
 - 1. When necessary, the surface can be washed down with a mild solution of detergent and water (this shall be done when film of dust, dirt, or smoke appears on surface).
 - 2. Stubborn stains can be removed with mild (bleach-free) abrasive cleanser.
- B. **Necessary Equipment:**
 - 1. Finished sheets of "FastFix."
 - 2. An option to the contractor specification shall be to provide single gallons of each color for future repairs.
 - 3. Compressor shall be 3/4 horsepower or larger with a manufacturer-approved cup gun, with an internal mix air cap.
- C. **Surface Preparation:**
 - 1. Make sure area to be repaired is spackled. Use acrylic spackle, lightweight muds may cause porosity differences on the wall. Sand smooth and level.
 - 2. Spot prime with recommended white primer.
- D. **Repair Procedure:**
 - 1. Apply self-adhering "FastFix" patch(es) for temporary repair of damaged surface(s).
 - 2. For spray-applied spot repairs set pressure on compressor to 50 psi (345 kPa). Turn control knob on the touch-up spray gun clockwise for sheer, then counter-clockwise for pattern step. Carefully pattern off area and blend it into the surrounding surface.

3.08 PAINTING SCHEDULE

A. **Interior:** As indicated on schedules.

1. **Miscellaneous and Ferrous Metals:**
 - a. **Primer:** Ferrous metal primer.
 - b. **Finish:** "Metal," Master Coating Technologies.
2. **Wood:**
 - a. **Primer:** "SP97 Multi-Purpose Waterbase Primer," (two coats) Master Coating Technologies.
 - b. **Finish:** "Metal," Master Coating Technologies.
3. **Gypsum Board and Plaster:**
 - a. **Primer:** "SP203 Acrylic Drywall Primer," (coat until uniformly white in color and sealed; may require two coats depending on substrate) Master Coating Technologies.
 - b. **Finish:** "Metal," Master Coating Technologies.
4. **Moisture-Resistant Gypsum Board:**
 - a. **Primer:** "SP97 Multi-Purpose Waterbase Primer," Master Coating Technologies.
 - b. **Second Coat:** "SP203 Acrylic Drywall Primer," Master Coating Technologies.
 - c. **Finish:** "Metal," Master Coating Technologies.
5. **Concrete and Masonry (Unfilled):**
 - a. **Primer:** "SP203 Acrylic Drywall Primer," Master Coating Technologies.
 - b. **Finish:** "Metal," Master Coating Technologies.
6. **Concrete and Masonry (Filled):**
 - a. **Primer:** Quality Block Filling Primer that accepts water-base top coat.
 - b. **Second Coat:** "SP203 Acrylic Drywall Primer," Master Coating Technologies.
 - c. **Finish:** "Metal," Master Coating Technologies.
7. **Glazed Block, Ceramic Tile, Masonite, MDF, Fiberglass, Glass, Galvanized Metals, Aluminum, Laminate, Epoxys, and Urethanes:**
 - a. **Primer:** "SP97 Multi-Purpose Waterbase Primer," Master Coating Technologies.
 - b. **Finish:** "Metal," Master Coating Technologies.
8. **Vinyl Wall Coverings:**
 - a. **Primer:** "SP97 Multi-Purpose Waterbase Primer" or "SP203 Acrylic Drywall Primer," Master Coating Technologies.
 - b. **Finish:** "Metal," Master Coating Technologies.
9. **Previously Painted Surfaces:**
 - a. **Primer:** "SP97 Multi-Purpose Waterbase Primer," Master Coating Technologies.
 - b. **Second Coat:** "SP203 Acrylic Drywall Primer," Master Coating Technologies.
 - c. **Finish:** "Metal," Master Coating Technologies.

END OF SECTION

Metal™ is a registered trademark of Master Coating Technologies LLC, Inc.

Zolatone markets and distributes Master Coating Technologies LLC products to the architectural marketplace.

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Issued in 2015, Master Coating Technologies LLC reserves the right to revise product specifications and recommendations. Contact manufacturer for current information.

WARRANTY: Master Coating Technologies warrants the Zolatone components of this finish system against manufacturing defect for a period of five years from the date of application when applied to a wall surface according to manufacturer's current printed instructions. Manufacturing defect is defined to be a failure of the coating system to adhere to a wall surface when applied according to manufacturer's printed instructions, and does not include subsequent failure or damage caused by exogenous factors such as substrate failure or defect, sharp objects, persons, or acts of God. In the event of a failure resulting from manufacturing defect, the product will be replaced. Master Coating Technologies shall have no obligation to or otherwise participate in labor or other costs associated with replacing the product. This warranty supersedes all previous warranties.