

MDC Ceramic – Eggshell Ceramic Coating for Walls

Specification Guide

95: 9770 Special Wall Finishes

88: 9800 Special Coatings

Part 1 General

1.01 SUMMARY

- A. This section specifies the furnishing and application of a waterbased, low VOC, eggshell wall coating system to vertical surfaces.

1.02 SUBMITTALS

- A. Manufacturer's Literature: Materials description and application instructions for each type of material specified or required.
- B. Manufacturer's published equipment checklist: Minimum equipment and supply requirements needed to install the multi-color system specified.
- C. Copies of material safety data sheets for each product to be furnished.
- D. Copy of product warranty.
- E. Prior to commencement of painting, submit copies of a complete list of all materials, identified by manufacturer's name and product label or stock number. List formatted to match coating systems specified in this section.
- F. 4" by 6" samples of each specified multi-color system pattern.

1.03 QUALITY ASSURANCE

- A. Installer Qualifications: Minimum two (2) years experience in the installation of the multi-color wall coating system specified, or proof of ability by installation of mock-up one month prior to project execution.

B. Materials:

1. Provide materials only in factory sealed and labeled containers. Re-use of any containers for any reason is prohibited and will result in work not being acceptable.
 2. Provide all coating materials and related primers from same manufacturer.
 3. Coats: Employ number of coats and undercoats for all finishes pursuant to coating manufacturer's published instructions. If full coverage is not obtained with the specified number of coats, apply such additional coats as necessary to produce the required finish.
- C. Regulatory Agency Requirements:
1. Comply with state and local regulations governing use of paint materials.
 2. Comply with OSHA guidelines for protective clothing, glasses, gloves, and respirators as required for project conditions.

1.04 FIELD SAMPLES

- A. Prepare 100 square feet sample for Architect's, Designer's and/or Owner's review for each color and finish specified and for each substrate using actual substrate material.
- B. Correct areas not accepted; modify methods of application to comply with specified requirements.
- C. Do not proceed with work until field samples have been accepted.
- D. Field samples may be part of the Work

1.05 PROJECT / SITE CONDITIONS

- A. Environmental conditions can be modified only if such requirements are a part of manufacturer's published application instructions.
 - 1. Apply coating materials only when surface and air temperatures are between 50°F and 80°F with a relative humidity less than 50% for 48 hours before, during and after the coating application.
 - 2. Application area should be free of airborne dust and debris
- B. Maintain minimum lighting conditions on surfaces to be coated equal to 80 foot candles. Do not apply coating in direct sunlight.
- C. Provide adequate fresh air and ventilation during application.

1.06 DELIVERY, STORAGE, AND HANDLING

- A. Deliver coating materials to job site in unopened, original containers with labels intact.
- B. Store materials on site in tightly covered containers in an approved location. Maintain containers in storage, mixing and application of coating system in a clean condition, free of foreign materials and residue. Do not store in sunlight. Do not allow to freeze.
- C. Remove all damaged or otherwise defective material from job site.

1.07 SAMPLING OF MATERIALS

- A. Samples of materials being used on the job may be taken at any time at discretion of Architect/Designer for compliance with specified requirements.

1.08 WARRANTY

- A. Provide manufacturer's standard written limited warranty against failures in materials for conditions stated herein.

PART 2 PRODUCTS

2.01 COATING SYSTEM

- A. Coating System: "MDC Ceramic Enhanced Finish Coating" as distributed by MDC, 400 High Grove Blvd

., Glendale Heights, IL 60139, Phone 800-621-4006.

- 1. System shall consist of a primer (if required), and a waterbased, low VOC, eggshell finish coat.
 - 2. Color and texture: As indicated on Drawings/Color Schedule or selected by Architect/Designer.
- B. Primers
 - 1. New Gypsum Board: PrimeSeal by MDC
 - 2. Cured New Plaster: PrimeSeal by MDC
 - 3. Painted Surfaces: PrimeSeal primer by MDC may be desirable to extend coverage and/or provide a uniform sealed surface.
 - 4. Painted Surfaces (Semi-Gloss/Gloss): SlickBond primer by MDC may be desirable to extend coverage and/or provide a uniform sealed surface.
 - 5. Ceramic Tile/Glazed Block: SlickBond primer by MDC
 - 6. Plastic Laminate: PrimeSeal by MDC
 - 7. Fiberglass: SlickBond by MDC
 - 8. Interior Ferrous Metal: SlickBond by MDC
 - 9. Non-ferrous Interior Metal: SlickBond by MDC
 - 10. Cured Concrete/Masonry: PrimeSeal by MDC
 - 11. Concrete Block: High quality, commercial grade 100% latex acrylic block filler (if required to seal surface for better coverage)
 - 12. Wood: Spot-prime knots and prime with 1 coat of a high quality, commercial grade suitable stain-blocking primer.
 - C. Finish: "MDC Ceramic Enhanced Finish Coat" Waterbased, ceramic enhanced coating.
 - 1. VOC content: less than 50 g/l minus water
 - 2. Volume Solids: 33-34%
 - 3. Solids by Weight: 47-48%
 - D. Optional Topcoat (only as indicated on drawings): "Pearl-Protector" Waterbased acrylic urethane clear coating (specify satin or gloss finish).
 - E. System Performance Criteria
 - 1. Fire: ASTM E-84-91a Class A or I, Flame Spread 15, Smoke developed 5
 - 2. Stain Resistance: ASTM D1308 Excellent

3. Scrub Resistance: ASTM 2486
Exceeds 3000 scrub cycles
4. Washability: ASTM D3450 Excellent
5. Finish: Eggshell (6-8% gloss at 60°)
6. VOC content must be at or under 50 g/L
7. Must be a single component Eggshell finish without a catalyst

2.03 MANUFACTURER

- A. Provide products manufactured for and distributed by:
 - MDC Wallcoverings
 - 400 High Grove Blvd
 - Glendale Heights, IL
 - 60139
 - Phone: (847) 437-4000
 - Fax: (847) 437-4017
 - Toll Free: (800) 621-4006

2.04 COLORS AND TEXTURES

- A. As indicated on Drawings/Color Schedule or selected by Architect/Designer

2.05 APPLICATION EQUIPMENT

- A. Primer Coat: (one of the following depending on application methods)
 1. Spray: Commercial grade sprayer equivalent to a Graco 395 or larger with minimum tip size .015 with a minimum pressure of 2000 psi.
 2. Roller: 1/4 – 3/8 inch synthetic roller.
 3. Brush: Synthetic fiber brush
- B. MDC Ceramic Finish Coat:
 1. Spray (Preferred method): Commercial grade sprayer equivalent to a Graco 395 or larger with minimum tip size .015 and minimum pressure of 2000 psi.
 2. Roller: 1/4 – 3/8 inch synthetic roller.
- C. PearlProtector Clear Coat
 1. Spray: Commercial grade 4 stage HVLP equipment equivalent to a CapSpray 9100 with a #3 nozzle or a Graco 4900 with a #3 nozzle.

PART 3 EXECUTION

3.01 SUBSTRATE EXAMINATION

- A. Examine substrates scheduled to receive coating system for conditions that may adversely affect the work. Do not apply specified coating systems until conditions are satisfactory.
- B. Commencement of coating work constitutes acceptance of substrates to receive the work.

3.02 SURFACE PREPARATION

- A. General: Perform surface preparation, including cleaning procedures, pursuant to coating manufacturer's published instructions and as specified for each particular substrate and coating condition.
- B. Remove all fixtures and other items not scheduled to receive coating, or provide surface-applied protection prior to surface preparation and coating application. Upon completion of coating work in each area, re-install removed items.
- C. All surfaces must be cured, sound and clean prior to coating system application. Remove dust, dirt, mildew, form oils, and similar surface contaminants.
- D. Completely remove existing painted surfaces exhibiting loose, flaking, or oxidized paint. Use sandblasting, waterblasting, electric sanding, or wire brushing for paint removal, and pursuant to coating manufacturer's published instructions.
- E. Fill large cracks, holes, and voids with an appropriate patching compound. Texture patched finish to match existing adjacent finish surface.
- F. Seal wall joint intersections with urethane-based sealant.
- G. Mask all adjacent areas not scheduled to receive coating system.
- H. Remove all wallpaper paste residue, grease, tar, nicotine, and similar surface contaminants. Clean with TSP solution or acceptable equivalent. Thoroughly rinse.
- I. Spot prime any remaining stains or marks with a high quality, commercial grade suitable stain-blocking primer.

3.03 MATERIAL PREPARATION

- A. Mix and prepare coating system materials pursuant to coating manufacturer's published instructions.
- B. Store materials not in actual use in tightly covered containers. Maintain

containers used in storage, mixing, and application of coatings in a clean condition, free of foreign materials and residue. Do not store in sunlight. Do not allow to freeze.

- C. Stir materials before application to produce a mixture of uniform density, and stir as required during application. Do not thin. Verify all colors prior to starting work.

3.04 APPLICATION

- A. General: Apply all coatings pursuant to manufacturer's published instructions. Use applicators and techniques best suited for substrate and type of material applied. No product substitutions permitted.

- B. Primer Coat: Apply all required primers pursuant to manufacturer's recommendations and instructions.

1. Apply as many coats necessary to produce a uniform substrate condition.
2. Re-prime as needed to correct suction or hot spots on substrate prior to applying finish coat.
3. Over wood and gypsum board, sand primer with 100 grit or finer sand paper. Thoroughly remove dust from sanding with clean, damp rag
4. Permit primer to fully dry prior to application of finish coat.

- C. MDC Ceramic Finish Coat: Apply over properly prepared substrate, including primer if required, at the manufacturer's specified coverage rate.

5. Primer (if required) must be applied and cured under acceptable environmental conditions prior to finish coat application.
6. Apply as a uniform, pinhole-free, continuous film at 4 mils wet. Estimate coverage rate is 400-450 sq.ft. /gal. on smooth surface.

- D. PearlProtector Clear Coat (only as indicated on schedule): Apply pursuant to manufacturer's published instructions.

1. Allow coating system to dry hard to the touch prior to application, but apply within 48 hours.
2. Apply as a uniform, pinhole-free, continuous film. Estimate coverage rates: 400 sq.ft. /gal.

- E. Apply each coat to a natural break point such as an edge or corner without stopping.

- F. Finish shall match approved field mock-up samples and shall be free of sags, holidays and excessive irregularities/unevenness.

- G. Stop immediately and contact your MDC Wallcoverings representative if any difficulties should occur during installation.

3.05 CLEANING AND PROTECTION

- A. Protect work of other trades, whether to be coated or not, against damage by coating and finishing work. Correct any damage by cleaning, repairing and/or replacing, and re-coating as acceptable to Architect/Designer.

- B. Remove discarded coating materials, rubbish, cans, rags and similar construction waste from site at the end of each workday. Clean any areas that have received coating overspray or spillage.

For samples and complete information, please call or write:

MDC Wallcoverings
400 High Grove Blvd, Glendale Heights,
Illinois 60139
(847) 437-4000 0 (800) 621-4006
FAX: (847) 437-4017

www.MDCWallFinishes.com