

## SECTION 09 96 66

### ClearErase – Mark Resistant Clear Coat

#### PART 1 - GENERAL

##### 1.1 RELATED DOCUMENTS

- A. **General:** Drawings and general provisions of the Contract, including General Conditions, Division 1 - GENERAL REQUIREMENTS, and other applicable specification sections in the Project Manual apply to the work specified in this Section.

##### 1.2 SUMMARY

- A. **Scope:** Provide labor, material, equipment, related services, and supervision required, including, but not limited to, manufacturing and application for clear dry-erase coatings as required for the complete performance of the work, and as shown on the Drawings and as herein specified.

*PRODUCT BELOW IS EXTREMELY DURABLE AND WILL HANDLE YEARS OF USE. IT IS DESIGNED FOR MEETING ROOMS, BRAIN-STORMING AREAS, CONFERENCE CENTERS, ETC., FOUND IN SCHOOLS, HOSPITALS, RESTAURANTS, ENTERTAINMENT FACILITIES, ETC., WHERE A DRY-ERASE SURFACE CAN BE USED.*

- B. **Section Includes:** The work specified in this Section includes, but shall not be limited to, a water-based coating for interior walls that is specially formulated to work as a dry-erase paint.

##### 1.3 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. **Gypsum Association (GA):**
  - 1. GA 214, "Recommended Specification: Levels of Gypsum Board Finish."
- C. **ASTM (ASTM):**
  - 1. ASTM D 2486, "Standard Test Method for Scrub Resistance of Interior Latex Flat Wall Paints."
  - 2. ASTM E 84, "Standard Test Method for Surface Burning Characteristics of Building Materials."
- D. **South Coast Air Quality Management District (SCAQMD):**
  - 1. SCAQMD Rule #1168, "Adhesive and Sealant Applications," including most recent amendments.

##### 1.4 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.
- C. **Quality Control Submittals:**
  - 1. **Qualification Data:** Submit qualification data for firms and persons specified in Quality Assurance Article to demonstrate their capabilities and experience. Include lists of completed projects with project names and addresses, names of architects and owners, and other information specified.

2. **Test Reports:** Submit product test reports from a qualified independent inspecting and testing agency showing compliance of clear dry-erase coatings with requirements, based on comprehensive testing of current product formulations within the last two years.

*RETAIN BELOW FOR PROJECT REQUIRING LEED CERTIFICATION.*

- D. **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 Section 01 11 23 - LEED GREEN BUILDING RATING SYSTEM. VOC limits shall be clearly stated in the submittal.
- E. **Maintenance Data:** Submit maintenance data for clear dry-erase coatings to include in operation and maintenance manuals specified in Division 1 - GENERAL REQUIREMENTS.

## 1.5 QUALITY ASSURANCE

- A. **Qualifications:**
  1. **Manufacturer Qualifications:** Manufacturer shall be a firm engaged in the manufacture of clear coatings of type required, and whose products have been in satisfactory use in similar service for a minimum of five years.
  2. **Applicator Qualifications:** Applicator shall be a firm that shall have a minimum of five years of successful application experience with projects utilizing clear coatings 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. **Mock-Ups:** Prior to application of the work, fabricate and erect mock-ups for each type of finish and application required 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. Locate mock-ups on site in location and of size indicated or, if not indicated, as directed by the Architect. Demonstrate the proposed range of aesthetic effects and workmanship to be expected in the completed work. Obtain the Architect's acceptance of mock-ups before start of final unit of work. Retain and maintain mock-ups during construction in undisturbed condition as a standard for judging completed unit of work.
  1. When directed, demolish and remove mock-ups from the Project site.

*SELECT ABOVE OR BELOW.*

2. Accepted mock-ups in undisturbed condition at time of Substantial Completion may become part of completed unit of work.
- D. **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.

## 1.6 DELIVERY AND STORAGE

- A. **Delivery:** Deliver materials to the Project site in supplier's or manufacturer's original wrappings and containers, labeled with supplier's or manufacturer's name, material or product brand name, and lot number, if any.
- B. **Storage:** Store materials in their original, undamaged packages and containers, inside a well-ventilated area protected from weather, moisture, soiling, extreme temperatures, and humidity.

## 1.7 PROJECT CONDITIONS

- A. **Environmental Requirements:** Do not apply ClearErase coating until space is enclosed and weatherproof, wet work in space is completed and nominally dry, work above ceilings is complete, and ambient temperature and humidity conditions are and will be continuously maintained at values near those indicated for final occupancy.

## PART 2 - PRODUCTS

### 2.1 MATERIALS

*RETAIN BELOW FOR PROJECT REQUIRING LEED CERTIFICATION.*

- 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 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 Section 01 11 23 - LEED GREEN BUILDING RATING SYSTEM for VOC content limits.
- B. **ClearErase Clear Coat:** Provide VOC-compliant, water-based mark resistant clear coating, capable of being applied over unlimited colors.
  - 1. **Technical Information and Test Results**
    - a. **Suitable Substrates:** Gypsum board, smooth-sealed wood, previously painted surfaces, and others in accordance with the manufacturer's recommendations.
    - b. **Colors Available:** Coating is clear.
    - c. **Coverage Rate:** Approximately 85-90 square feet per kit.
    - d. **Finish:** Gloss 92 at a 60 degree.
    - e. **Maximum VOC:** Less than 50 grams per liter, EPA Test Method 27.
    - f. **Fire Rating:** Class A or Class I, ASTM E 84.
    - g. **Scrub Resistance:** 10,000+ scrub cycles, ASTM D 2486.
    - h. **Stain Removal:** Excellent rating.
  - 2. **Basis of Design:** Product specified is "ClearErase" as manufactured by Master Coating Technologies. Items specified are to establish a standard of quality for design, function, materials, and appearance. Equivalent products by other manufacturers are acceptable. The Architect will be the sole judge of the basis of what is equivalent.
- C. **Accessories:** Provide accessories as recommended by the manufacturer, including, but not limited to, the following:
  - 1. **Markers:** "Low Odor or Bold Dry Erase Markers", Expo.

2. **Cleaner/Wipes:** “Dry Erase Board Cleaner” or “Wipes”, Expo.

## **PART 3 - EXECUTION**

### **3.1 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. Beginning of the work shall indicate acceptance of the areas and conditions as satisfactory by the Applicator.

### **3.2 PREPARATION**

- A. **Product Preparation:** Gloves, goggles, and a respirator shall be worn when pouring and mixing. Thinning is not required for brush or roller application.
- B. **Surface Preparation:** Prepare surfaces to Level 5 smoothness in accordance with GA 214. Primer/sealers and base coats may be brushed, rolled, or sprayed. Sprayed application is preferred in order to provide the smoothest surface for the application of the clear dry-erase coating.
  1. **Gypsum Board:** Prepare to Level 5 finish for best results. Provide two base coats of manufacturer’s recommended product. Ensure uniform color across surface.
  2. **Primed Metal:** Provide two base coats of manufacturer’s recommended product.
  3. **Unprimed Metal:** Provide manufacturer’s recommended primer and two base coats of manufacturer’s recommended product.
  4. **Previously-Painted Surfaces:** Provide two base coats of manufacturer’s recommended product.

### **3.3 APPLICATION**

- A. **Required Materials:** Nine inch lint-free 1/4” nap roller cover. Metal painters tray Low tack painters tape. Part 1, Part 2 and a stir stick.

**Preparation:** Over existing painted surfaces: The surface should be clean, dry, and free of grease and mildew. Since ClearErase is a high-gloss clear coat it will highlight and imperfections, so take the necessary steps to ensure a smooth surface prior to application. If repainting before applying ClearErase: Sand the existing wall to remove any high points or imperfections and fill any holes or scratches. Apply the primer and paint so it is as smooth as possible with very little stipple and no lap marks or roller lines. Allow to fully dry (let dry 4+ hours depending on conditions) applying ClearErase. **IMPORTANT:** Mask surrounding areas with low tack painters tape. ClearErase dries quickly so remove tape while finish is still wet. Any material found under the painters tape can be removed with a damp rag.

**Mixing:** Stir mixture while pouring Part 1 into Part 2. Mix thoroughly for 3-3 1/2 minutes. As 1 and 2 are incorporated, ClearErase will begin to thicken. Make sure to incorporate unmixed paint on the sides of the can into the middle. Allow mixed ClearErase to “sweat-in” for 5 minutes. **IMPORTANT:** Once parts 1 & 2 are mixed, ClearErase must be used in 1 hour. Do not combine multiple kits. Do not reseal cans once mixed. Contents will expand.

**Application:** Pour ClearErase into a clean metal tray and apply with a lint-free 1/4” nap roller. Cut-in only as far as you are able to paint before the paint begins to dry. Roll vertically. Maintain a wet edge. Work in manageable 3-4 ft. sections. Inspect the application from multiple angles to ensure uniform coverage and no pin-holes. Surface will be cured in 5 days. After curing for 5 days, we recommend wiping the surface with Surface Conditioner then buffing with a clean cloth. For application assistance, call 1.800.220.5656

1. **Open Time:** 1 Hour
2. **Curing:** Allow coating to cure for five days before using as a mark resistant clear coat.
3. **Coverage:** 85-90 square feet per kit.

### **3.4 ADJUSTING AND CLEANING**

- A. **Clean-Up:** Dispose of roller. Clean equipment immediately after application with warm soaped water and disposable rag. Do not flush waste material into any drain.
- B. **Disposal:** Product contains no chromium, lead, or mercury. Disposal of containers shall be in accordance with applicable federal, state and local laws and regulations. Comply with requirements of authorities having jurisdiction concerning reuse, recycling, or disposal or unused product.
- C. **Maintenance:** Clean ClearErase surface as needed with dry erase board cleaner or wipes, and use only Low Odor Bold Expo Dry Erase Markers.

### **3.5 PROTECTION**

- A. **General:** Provide final protection and maintain conditions in a manner acceptable to the Applicator, that shall ensure that the clear dry-erase coatings shall be without damage at time of Substantial Completion.

**END OF SECTION**