

SECTION 09 96 66

CLEAR DRY ERASE COATINGS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. **General:** 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.

1.2 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 International (ASTM):**
 - 1. ASTM D2486, "Standard Test Method for Scrub Resistance of Interior Latex Flat Wall Paints."
 - 2. ASTM E84, "Standard Test Method for Surface Burning Characteristics of Building Materials."
 - 3. ASTM E329, "Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction."
- D. **Green Seal (GS):**
 - 1. GS-11, "Paints and Coatings."
 - 2. GS-37, "Industrial & Institutional Cleaners."

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. BELOW APPLIES TO CREDIT IEQ 4.2 (PAINTS AND COATINGS).

2. **Low-Emitting Materials (Paints and Coatings):** Submit certification by the manufacturer confirming that paints and coatings meet or exceed the volatile organic compound (VOC) limits set by specific agencies or other requirements. 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 01 - 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.
 3. **Inspecting and Testing Agency Qualifications:** To qualify for acceptance, an independent inspecting and testing agency hired by the Contractor or manufacturer to test products shall demonstrate to the Architect's satisfaction that they are qualified according to ASTM E329 to conduct testing indicated.
- 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.
- E. **Single Source Responsibility:** Obtain clear dry erase coatings from a single source with resources to produce products of consistent quality in appearance and physical properties without delaying the work.

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 clear dry erase 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.

1.8 WARRANTY

- A. **General:** See Section 01 77 00 - CLOSEOUT PROCEDURES.
- B. **Special Warranty:** The Contractor shall warrant the work of this Section to be in accordance with the Contract Documents and free from faults and defects in materials and workmanship for a period of five years. This special warranty shall extend the one year period of limitations contained in the General Conditions. The special warranty shall be countersigned by the Applicator and the manufacturer.
1. **Warranty Period:** Warranty period shall be from date of Substantial Completion.
- C. **Additional Owner Rights:** The warranty shall not deprive the Owner of other rights the Owner may have under other provisions of the Contract Documents and shall be in addition to and run concurrent with other warranties made by the Contractor under requirements of the Contract Documents.

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] [20 percent], based on cost, of building materials that are regionally extracted, processed, and manufactured.

ABOVE APPLIES TO CREDIT MR 5. SELECT APPLICABLE PERCENTAGE, 10 PERCENT WILL ALLOW THE PROJECT TO ACHIEVE ONE POINT, 20 PERCENT WILL ALLOW THE PROJECT TO ACHIEVE TWO POINTS. BELOW APPLIES TO CREDIT IEQ 4.2 (PAINTS AND COATINGS).

2. **Low-Emitting Materials (Paints and Coatings):** Paints and coatings used on the interior of the building (i.e., inside of the weatherproofing system and applied on-site) shall comply with the following criteria as applicable to the Project:
 - a. Architectural paints and coatings applied to interior walls and ceilings shall not exceed the VOC content limits established in GS-11.
- B. **Clear Dry Erase Coating:** Provide VOC-compliant, water-based polyurethane-fortified clear dry erase 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:** Small Kit - 40 square feet per kit, Medium Kit - 85-90 square feet per kit, Large Kit - 170-180 square feet per kit.
 - d. **Finish:** Gloss.
 - e. **Maximum VOC:** Less than 25 grams per liter, EPA Test Method 27.
 - f. **HMIS Rating:** Health rating for any component not to exceed 2.
 - g. **Fire Rating:** Class A or Class I, ASTM E84.
 - h. **Scrub Resistance:** 10,000+ scrub cycles, ASTM D2486.
 - i. **Stain Removal:** Excellent rating.
 2. **Basis of Design:** Product specified is "ClearErase" as manufactured by Master Coating Technologies, Inc. Items specified are to establish a standard of quality for design, function, materials, and appearance.
- C. **Accessories:** Provide accessories as recommended by the manufacturer, including, but not limited to, the following:
 1. **Markers:** "Low Odor 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 one coat of manufacturer's recommended primer/sealer. Ensure uniform color across surface. Provide two base coats of manufacturer's recommended product.
2. **Primed Metal:** Provide one coat of manufacturer's recommended primer/sealer and 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 one coat of manufacturer's recommended primer/sealer and two base coats of manufacturer's recommended product.

3.3 APPLICATION

- A. **Required Materials:** Required materials include, but shall not be limited to, a 1/4 inch (6 mm) nap high gloss finish roller that shall be lint-free and shed-resistant, a 1/4 inch (6 mm) nap mini roller for cutting in edges, roller handle, aluminum painters tray, and low tack painters tape.
- B. **Preparation:** As with any high-gloss finish, imperfections in the surface will be enhanced by product application. The smoother the surface, the more effective the finish will be. Carefully spackle holes and sand any rough patches to a Level 5 smoothness. Dull glossy surfaces with 120 grit sandpaper and remove dirt and dust before applying base coat. Improper surface preparation may cause bubbles to form in the coating. Carefully mask the surrounding areas with painters tape. Coating dries quickly so the tape shall be removed while the finish is still wet. Any material that gets under the tape shall be removed with a damp rag.
- C. **Mixing:** Coating Part 1 and Part 2 are both clear but will become white when thoroughly mixed. Pour Part 1 into Part 2. Stir until mixture is uniformly white. Continue to stir for an additional three minutes. Do not shake, shaking will create air bubbles which can adversely affect the finish. Leave the lid off the container after mixing to avoid pressure build up inside the can. Once mixed, containers shall be set on top of cardboard or plastic to protect surrounding areas. Coating expands (foams up) over time and will eventually set-up like cement which could damage surfaces the can is placed on.
- D. **Application:** Pour coating into a clean aluminum roller tray and apply with a 1/4 inch (6 mm) lint-free nap roller keeping a wet edge. Apply slowly in 3 foot (914 mm) by 3 foot (914 mm) sections with even pressure to avoid creating excess bubbles and pinholes. To avoid roller marks cut in only as far as can be rolled before the cut in dries. One coat should be sufficient, however if a second coat is needed, it shall be applied within minutes after the first coat (wet-on-wet re-coat technique). Do not apply below 60 degrees F (16 degrees C) or above 85 degrees F (27 degrees C) (humidity can effect application). Do not spray apply coating. Coating shall be applied with a 1/4 inch (6 mm) nap roller and shall never be atomized through the use of spray equipment.
 1. **Dry Time:** Coating dries very quickly and shall be applied within two to three hours after mixing.
 2. **Curing:** Allow coating to cure for five days before using new dry erase surface.

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.
 1. Any cleaning operation shall not compromise LEED credits, especially with respect to indoor air quality conditions, VOC limits listed in the Specifications, and the Construction IAQ Plan. No cleaning products or processes shall compromise the LEED credit criteria or exceed listed VOC limits or use ozone-depleting substances. Cleaning materials shall comply with GS-37.
- 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:** Keep clear dry erase coating surface clean using a quality dry erase cleaner. For best results clean dry erase surface daily.

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