

SECTION 09 72 00

WALL COVERINGS

PART 1 - GENERAL

1.01 DESCRIPTION

- A. This Section describes the requirements for furnishing and installing wall coverings.
- B. Related Sections:
 - 1. Gypsum board is specified in Section 09 29 00.

1.02 SUBMITTALS

- A. Product Data: Manufacturer's technical data and installation instructions for each type of wall covering and installation materials.
 - 1. Furnish MSDS or manufacturer's data indicating VOC content of adhesive.
- B. Samples: Full width samples of each type of wall covering, showing range of color and pattern variation; submit sets of sample moldings.
- C. Certification: Manufacturer's certification that materials furnished comply with requirements specified.
- D. Maintenance Instructions: Manufacturer's printed instructions for maintenance, including precautions for use of cleaning materials which could damage wall covering.
- E. Extra Materials: After completion of work, deliver to Project site not less than 6-linear yards of each type, color, and pattern of wall covering installed. Furnish replacement materials from same production run as materials installed.
- F. LEED Submittals:
 - 1. Credit IEQ 4.1: Product data for adhesives and sealants used inside the weatherproofing system indicating VOC content of each product used. Indicate VOC content in g/L calculated according to 40 CFR 59, Subpart D.
 - a. Furnish LEED Online Credit Template listing the adhesives and sealants used in the building and declaring that they meet the specified LEED requirements.
 - b. Required Audit Documentation:
 - 1) Product data sheets and MSDS for each adhesive/sealant used on the interior, with the VOC content in g/L circled and indicating VOC content of each product used.
 - 2) Summary table comparing credit VOC requirements and actual VOC levels for each product.
 - 2. Credit IEQ 4.2: Product data for primer/sealer used inside the weatherproofing system indicating VOC content of each product used. Indicate VOC content in g/L calculated according to 40 CFR 59, Subpart D.
 - a. Furnish the LEED Online Credit Template listing all the paints and coatings used in the building, stating they comply with the VOC and chemical component limits of GS-11 requirements.

b. Required Audit Documentation:

- 1) Product data sheets and MSDS or letter from the manufacturer for each interior paint, with the VOC content in g/L circled.
- 2) Summary table comparing credit VOC requirements and actual VOC levels for each product.

G. Warranty.

1.03 QUALITY ASSURANCE

- A. Manufacturer: Each type of wall covering shall be produced by a single manufacturer, including recommended primers, adhesives, and sealants.
- B. Installer: A firm specializing in wall covering work with not less than 3-years of experience installing wall coverings similar to those required for this Project.
- C. Fire Hazard Classification: Provide materials bearing UL, Warnock Hersey or other label and marking, indicating fire hazard classification of wall covering, as determined by ASTM E84.
 1. Provide materials with flame spread not more than 25, and smoke developed not more than 50.
- D. Test Panels: Install 3-test panels of full usable width for each type of wall covering to be installed, including one corner, in areas designated by County's Representative. Replace test panels which are not acceptable to County's Representative until satisfactory installation is achieved.

1.04 ENVIRONMENTAL QUALITY ASSURANCE

- A. Credit IEQ 4.1: Adhesives and sealants used on the interior of the building (defined as inside of the weatherproofing system and applied on-site) shall comply with the requirements of the following reference standards:
 1. Adhesives, Sealants and Sealant Primers: Comply with South Coast Air Quality Management District (SCAQMD) Rule #1168. VOC limits as follows:

Architectural Applications	VOC Limit g/L less water	Specialty Applications	VOC Limit g/L less water
Indoor Carpet Adhesives	50	PVC welding	510
Carpet pad adhesives	50	CPVC welding	490
Wood flooring adhesives	100	ABS welding	325
Rubber floor adhesives	60	Plastic cement welding	250
Subfloor adhesives	50	Adhesive primer for plastic	550
Ceramic tile adhesives	65	Contact adhesive	80
VCT and asphalt adhesives	50	Special purpose contact adhesive	250
Drywall and panel adhesives	50	Structural wood member adhesive	140
Cove base adhesives	50	Sheet applied rubber lining operations	850
Multipurpose construction adhesives	70	Top and trim adhesive	250
Structural glazing adhesives	100		
Substrate Specific Applications	VOC Limit g/L less water	Sealants	VOC Limit g/L less water
Metal to Metal	30	Architectural	250
Plastic foams	50	Nonmembrane roof	300
Porous material (except wood)	50	Roadway	250
Wood	30	Single-ply roof membrane	450
Fiberglass	80	Other	420
Sealant Primers	VOC Limit (g/L less water)		
Architectural, nonporous	250		
Architectural, porous	775		
Other	750		

2. Aerosol Adhesives: Green Seal Standard for Commercial Adhesives GS-36 requirements in effect on October 19, 2000.

Aerosol Adhesives	VOC Limit
General purpose mist spray	65% VOCs by weight
General purpose web spray	55% VOCs by weight
Special purpose aerosol adhesives (all types)	70% VOCs by weight

- B. Credit IEQ 4.2: Primers/sealers used on the interior of the building (defined as inside of the weatherproofing system and applied on-site) shall comply with the following criteria:

1. Architectural paints, coatings and primers applied to interior walls and ceilings: Do not exceed VOC content limits established in Green Seal Standard GS-11, Paints, 1st Edition, May 20, 1993.
 - a. Flats: 50 g/L
 - b. Non-Flats: 150 g/L

- C. Applicable LEED Credits:

1. Credit IEQ 4.1 – Low-Emitting Materials - Adhesives and Sealants.
2. Credit IEQ 4.2 – Low-Emitting Materials - Paints and Coatings.

1.05 PRODUCT DELIVERY, STORAGE, AND HANDLING

- A. Comply with manufacturers' instructions and recommendations.
- B. Deliver materials to Project site in original packages or containers clearly labeled to identify manufacturer, brand name, quality or grade, and fire hazard classification.
- C. Store materials in original undamaged packages or containers. Do not store rolled goods in upright position.

1.06 JOB CONDITIONS

- A. Maintain constant minimum temperature of 60-deg. F. at areas of installation for at least 72-hours before and 48-hours after application of materials.
- B. Illuminate areas of installation using building's permanent lighting system; temporary lighting will not be acceptable.

1.07 WARRANTY

- A. Wall covering materials, when adhered to a sound surface shall be free of manufacturing defects for a period of 5-years. Manufacturing defects include permanent surface staining attributable to mildew and/or bleed-through of foreign impurities embedded in the backing, and separation of the vinyl from its backing. This warranty shall be in addition to and not a limitation of other rights the County may have against the Developer Design/Builder under the Contract Documents.

PART 2 - PRODUCTS

2.01 WALL COVERINGS

- A. To be selected.

2.02 ACCESSORY ITEMS

- A. Adhesives: Manufacturer's recommended Low VOC adhesive, primer, and sealer, for use with selected wall covering on indicated substrate. Provide materials that are mildew-resistant and non-staining to wall covering.
- B. Release Coat: Water base sealer or enamel undercoater for substrates as recommended by wall covering manufacturer.

PART 3 - EXECUTION

3.01 PREPARATION

- A. Acclimatize wall covering materials by removing from packaging in area of installation not less than 24-hours before application.
- B. Remove switch plates, wall plates, and surface-mounted fixtures in areas where wall covering is to be applied.
- C. Prime and seal substrates in accordance with wall covering manufacturer's recommendations. Apply surface sealer to gypsum board to permit subsequent removal of wall covering without damage to paper facing.
- D. Test substrate with electronic moisture meter to verify that surfaces to be covered do not exceed 4-percent moisture content.

3.02 INSTALLATION

- A. Place wall covering panels consecutively in order cut from rolls, including filling of spaces above or below openings. Hang by reversing alternate strips except on match patterns.
- B. Apply adhesive to back of wall covering and place in accordance with manufacturer's instructions. Install seams plumb, and at least 6-inches away from corners. Horizontal seams are not permitted. Overlap seams and double-cut to assure tight closure. Roll, brush, or use broad knife to remove air bubbles, wrinkles, blisters, and other defects; cut wall covering evenly to edges of wall penetrations.
- C. Trim selvages as required to assure color uniformity and pattern match.
- D. Remove excess adhesive along finished seams while it is still wet using materials and procedures recommended by wall covering manufacturer.

3.03 ADJUST AND CLEAN

- A. Replace removed plates and fixtures; verify cut edges of wall coverings are completely concealed.
- B. Remove surplus materials, rubbish, and debris resulting from wall covering installation, and leave areas of installation in neat, clean condition.

END OF SECTION