

SECTION 09720

WALL COVERINGS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Vinyl wall covering.
2. Prime coats for substrates and adhesive: System to prevent staining and loss of adhesion of wall covering due to mildew.
3. Adhesives for substrates.

B. Related Sections Include:

1. Section 09250 - Gypsum Board Assemblies: Gypsum board joint treatment and finishing.

1.2 SUBMITTALS

A. Product Data: Submit technical information describing each wall covering material proposed.

1. Include installation instructions for each type of substrate and maintenance instructions.
2. Include data on physical characteristics, durability, fade resistance and flame resistance characteristics.
3. Include manufacturer's recommendations for maximum permissible moisture content of substrates.

B. Shop Drawings: Layout drawings showing location and extent of each wall covering type. Indicate termination points.

C. Samples For Verification: Submit full-width sample, not less than 36 inches long, of each type, color, texture, and pattern of wall covering. Show complete pattern repeat.

D. Certification: Provide certificates signed by wall covering manufacturer that materials furnished comply with specified requirements.

1. Provide certified test reports showing compliance with requirements for fire performance characteristics and physical properties.

E. Maintenance Data: Incorporate the following in operating and maintenance manuals specified in "Section 01770 "Closeout Procedures":

1. Methods for maintaining wall covering.
2. Precautions for use of cleaning materials and methods that could be detrimental to finishes and performance.

1.3 QUALITY ASSURANCE

A. Installer Qualifications: Engage an experienced Installer who specializes in the installation of wall covering similar to that required for this project.

- B. **Fire Performance Characteristics:** Provide wall coverings with surface burning characteristics specified below, based on ASTM E 84-87 tests performed by testing and inspecting organizations acceptable to authorities having jurisdiction. Identify wall coverings with markings of testing and inspecting organization.
 - 1. Flame Spread: 25 or less.
 - 2. Smoke Developed: 450 or less.
- C. **Field-Constructed Mock-ups:** Before full-production installation, prepare mock-ups to set quality standards for installation workmanship and aesthetic effect of remainder of the work. Comply with the following requirements:
 - 1. Apply approximately 50 sq. ft. of each wall covering type; include internal corner.
 - 2. Use materials and methods intended for remainder of the work.
 - 3. Locate mock-ups at Project site where directed by Architect.
 - 4. Retain and maintain mock-ups in undisturbed condition. Accepted mock-ups in undisturbed condition at time of Substantial Completion may become part of completed work.

1.4 DELIVERY, STORAGE AND HANDLING

- A. **General:** Comply with recommendations of the manufacturer for special delivery, storage and handling requirements.
- B. **Delivery:** Deliver materials to project site in factory packages or wrappings, labeled to identify manufacturer, brand name, lot number, quality or grade, and fire hazard classification.
- C. **Storage:** Store materials in original packaging, inside a well-ventilated area protected from moisture, soiling, extreme temperatures and humidity, and construction traffic. Store rolled goods flat, blocked off the ground to prevent sagging and warping. Maintain temperature in storage area above 60 deg F.

1.5 PROJECT CONDITIONS

- A. **Ambient Conditions:** Maintain a uniform temperature not less than 60 deg F in installation areas for at least 10 days before and 10 days after installation.
- B. **Illumination:** Illuminate installation areas using the permanent lighting system; temporary lighting alone will not be acceptable.
- C. **Coordination:** Schedule installation with other construction activities to minimize wall covering damage and soiling during the remainder of the construction period.

1.6 EXTRA MATERIALS

- A. **Description:** Provide extra wall covering of each type, color and pattern for future use by Owner. Furnish extra materials from same production runs as wall covering installed. Package materials with protective covering and identify with labels describing contents. Deliver extra materials to Owner.
- B. **Quantity:** Furnish materials in full width rolls equal to 5 percent of amount of each material installed.

PART 2 - PRODUCTS

2.1 WALL COVERING MATERIALS

- A. **General:** INTERIOR FINISH LEGEND on the Drawings specifies manufacturer, style, color, pattern, size, and related requirements for wall covering materials.
- B. **Substitutions:** Products of other manufacturers that match Architect's control samples in color, texture, and construction may be substituted upon Architect's approval. Final determination of match shall be by Architect.
- C. **Vinyl Wall Covering Description:** Provide integrally pigmented, opaque virgin Vinyl Coated Polyester wall covering material treated with mildew additives and laminated to suitable backing. Provide wall covering material complying with FS CCC-W-408 and the requirements indicated on the Drawings.

2.2 INSTALLATION MATERIALS

- A. **Adhesives:** Provide a premium quality, premixed, CLEAR, full strength vinyl adhesive as recommended by the wall covering manufacturer and produced expressly for use with selected wall covering on substrate involved. Provide materials which are strippable, mildew-resistant and nonstaining to wall covering.
 - 1. Subject to compliance with manufacturer, the following product shall be used for installation:
 - a. Adhesive: Sure-Grip Plus Mildew-Proof Wall Covering Adhesive, as manufactured by Zinsser Co., Inc., 173 Belmont Dr., Somerset, NJ 08875, (732) 469-8100.
- B. **Release Coat:** Provide sealer or undercoat for new gypsum wallboard substrates as recommended by wall covering manufacturer
 - 1. Subject to compliance with manufacturer, the following products shall be used for installation:
 - a. Primer/Sealer: Shieldz Plus Mildew-Proof Wall Covering Primer/Sealer, Product #03200, as manufactured by Zinsser Co., Inc., 173 Belmont Dr., Somerset, NJ 08875, (732) 469-8100.
 - b. Damaged Drywall Sealer: Gardz Damaged Drywall Sealer, Product #02301, as manufactured by Zinsser Co., Inc., 173 Belmont Dr., Somerset, NJ 08875, (732) 469-8100.

2.3 MOISTURE METER

- A. **Moisture Meter:** Delmhorst Moisture Meter D2100, equipped with #2941/A-100 with 5/16" Contact Pins, as manufactured by Delmhorst Instrument Co., 51 Indian Lane East, PO Box 68, Towaco, NJ 07082, (800) 222-0638.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. **Inspection:** Examine the substrates scheduled to receive wall coverings for compliance with requirements and conditions affecting performance of wall covering work.
 - 1. Finish of existing surfaces to receive wall coverings shall be as specified in Section 09250 "Gypsum Board Assemblies."

2. Verify that application surfaces are free from defects and imperfections that could show through the finished surface.
3. Do not install wall coverings over felt-tip pen markings which have not been sealed to prevent bleed-through.
4. Patch superficial gouges, scratches or dents with specified damaged wall sealer.

B. Substrate Moisture Content: Maximum of 5 percent or less when tested with an electronic moisture meter of type specified above.

3.2 PREPARATION

A. Materials Preparation: Acclimatize wall covering materials in the installation areas by removing them from packaging not less than 36 hours before installation.

B. Substrate Preparation: Follow wall covering manufacturer's printed instructions for preparation of substrate surfaces. Prime and seal substrates in accordance with the wall covering manufacturer's recommendations for type of substrate.

1. Prepare substrates to achieve a smooth, dry, clean surface free of flaking, unsound coatings, cracks, and defects.
2. Gypsum Board: Apply a surface sealer which will permit subsequent removal of wall covering without damage to paper facing.
3. Check painted surfaces for pigment bleeding. Sand gloss, semi-gloss, and eggshell finishes with fine sandpaper.
4. Do not proceed until unsatisfactory conditions have been corrected.
5. Proceeding with application will be considered as acceptance of conditions and, with such acceptance, assumption of responsibility for subsequent performance of application.

C. Other Items: Remove switch plates, wall plates, and surface-mounted fixtures in areas where wall covering is to be applied. Upon completion of wall covering installation in each space and area, reinstall items.

3.3 PRIMING SUBSTRATE

A. Priming as recommended by manufacturer, subject to approval by Architect:

1. Moisture Content: Do not begin priming until wall moisture content is as specified. Use fans after application of primer to assure circulation of air and to promote drying of primer.
2. First Primer Application: Apply primer to entire surface of wall to receive wall covering. Apply primer by spray brush or roller in accordance with manufacturer's recommendations at a rate of one gallon to 350 square feet or less.
3. Second Primer Application: Do not apply second coat of primer until first coat is completely dry to the touch. Apply at the same rate as specified for first coat and allow to dry.

3.4 INSTALLATION

A. General: Comply with wall covering manufacturer's instructions and recommendations. Verify that colors and patterns of wall coverings are those specified before beginning installation.

1. Install wall covering with no gaps or overlaps.
2. Install seams plumb and at least 8 inches away from corners.
3. Horizontal seams will not be permitted.

4. Avoid excess adhesive at seams and face of wall covering, and on adjoining surfaces.
5. Place panels consecutively in the order cut from rolls, including filling spaces above or below openings. Obtain Architect's instructions before establishing the direction of each different wall covering pattern.
6. Apply adhesive to the back of the wall covering and place in accordance with the manufacturer's instructions.
7. Roll, brush, or use a broad knife to remove air bubbles, wrinkles, blisters, and other defects. Cut wall covering evenly to the edges of wall penetrations.
8. Trim selvages as required to assure color uniformity and pattern match.

B. Hanging Wall Covering:

1. Do not begin hanging wall covering until primer is completely dry to the touch. If double cutting is required, allow the wall to dry 8-hours before hanging.
2. Use specified adhesive. Thoroughly mix to achieve a complete blending of the entire contents of each bucket. If thinning is required for machine application, add no more than one cup of potable water to a 5-gallon pail of adhesive. Each pail of adhesive should be used within 24-hours after opening and mixing. Discard all unused adhesive at the end of the workday.
3. Hang wall covering in accordance with the general requirements specified above.

3.5 CLEANING

- A. Adhesive Removal:** Immediately remove excess adhesive along finished seams and perimeter edges of wall covering and adjacent surfaces.
1. Wall covering: Remove excess adhesive as recommended by manufacturer.
 2. Other Surfaces: Remove excess adhesive carefully, in accordance with the recommendations of the manufacturer of the surface to be cleaned. Protect wall covering from stains and damage during cleaning.
- B. Work Area Cleanup:** Remove surplus materials, rubbish, and debris resulting from wall covering installation upon completion of work, and leave areas of installation in neat, clean condition.

3.6 COMPLETION

- A. Protection:** Provide protective methods and materials needed to ensure that wall coverings will be without deterioration or damage at time of Substantial Completion.
- B. Completed Work:** Wall covering shall be clean and fully adhered, without wrinkles, blisters, bubbles and other application defects. Seams shall be tight, without overlaps and gaps, and shall be straight, vertical, and at least 6 inches away from corners. Colors and patterns shall be uniform and as selected.
- C. Adjusting:** Remove and replace with new material installed wall covering, which is not in accordance with specified requirements. Repair, or remove and replace, other work damaged as a result of wall covering work.
- D. Extra Materials:** Place in storage at the Project Site.

END OF SECTION