

# UNI-TEX<sup>®</sup> A-1 SYSTEM

## EXTERIOR INSULATION & FINISH SYSTEM (CLASS PB)

### MASTER GUIDE SPECIFICATION

#### SECTION 07240

## **PART I - GENERAL**

### **1.01 SUMMARY**

This document contains the requirements for the proper design, use and installation of the **UNI-TEX A-1** Exterior Insulation and Finish System (EIFS), Class PB, in typical applications. It is intended for use in conjunction with UNITED COATINGS' published **UNI-TEX A-1** System typical details. Individual project design parameters may require special details or specifications, which the project design professional should prepare. This ICBO approved system is composed of EPS insulation board attached to an approved substrate with **UNI-TEX INSULBOND** adhesive and/or mechanical fasteners. A polymer reinforced Portland Cement base coat – **WALL-BOND** – is applied to the insulation board and a crack/impact barrier fabric – **FIELD FABRIC** – is immediately embedded into the wet base coat. After proper curing of the base coat embedded with mesh (12 to 24 hours depending on weather conditions) a precolored and textured 100% acrylic finish coat – **UNI-TEX FINISH** – is applied over the base coat.

- A. Section Includes:
  - Exterior Insulation and Finish System, Class PB
- B. Related Sections:
  - 1. Unit Masonry – Section 04200
  - 2. Concrete – Sections 03300 and 03400
  - 3. Light Gauge Cold Formed Steel Framing – Section 05400
  - 4. Wood Framing – Section 06100
  - 5. Sealants – Section 07900

### **1.02 DEFINITIONS**

- A. Base Coat: The layer consisting of one or more layers of Reinforcing Mesh fully embedded into the base coat material, as applied to the outside surface of the EPS insulation board.
- B. Building Expansion Joint: A joint through the entire building structure designed to accommodate structural movement.
- C. Contractor: The Contractor who installs the **UNI-TEX A-1** System to the substrate.
- D. **UNI-TEX**: The **A-1** Exterior Insulation & Finish System as manufactured by UNITED COATINGS MANUFACTURING CO., a Washington corporation.
- E. Expansion Joint: A discontinuity in the **UNI-TEX A-1** System to allow expansion and contraction of the wall assembly.
- F. Finish: An acrylic-based coating, available in a variety of textures and colors, that is applied to the exterior surface of the base coat.
- G. Insulation Board: Expanded polystyrene (EPS) insulation board, which is affixed to the substrate either with adhesive, mechanical fasteners or both.
- H. Reinforcing Mesh: Glass Fiber Mesh used to reinforce the base coat and to provide impact resistance.
- I. Sheathing: A substrate in sheet form.
- J. Substrate: The underlying material to which the **UNI-TEX A-1** System is affixed.
- K. Substrate System: The total wall assembly including the attached substrate to which the **UNI-TEX A-1** System is affixed.

### **1.03 SYSTEM DESCRIPTION**

- A. General: The **UNI-TEX A-1** System is an Exterior Insulation and Finish System, Class PB, consisting of an adhesive, insulation board, base coat with reinforcing mesh and finish.
- B. Field Applied Installation Method: The **UNI-TEX A-1** System as applied to the substrate system in place.

### C. Design Requirements

1. Acceptable Substrates for the **UNI-TEX A-1** System shall be:
  - a. Unglazed brick, cement plaster, concrete or masonry.
  - b. Exterior grade gypsum sheathing meeting ASTM C 79 requirements for water-resistant core or Type X core at the time of application of the **UNI-TEX A-1** System.
  - c. Silicone treated gypsum core sheathing surfaced with inorganic fiberglass mats meeting ASTM C 1177.
  - d. Exterior fiber-reinforced cement and calcium silicate boards.
  - e. APA exterior or exposure 1 rated plywood, grade C-D or better, nominal ½" (1.3 cm), minimum 4 ply.
  - f. APA Exposure 1 rated oriented strand board (OSB), nominal ½" (1.3 cm).
  - g. Galvanized expanded metal lath 2.6 or 3.3 lbs/yd<sup>2</sup> installed over a solid substrate.
2. Deflection of substrate systems shall not exceed L/240.
3. The slope of inclined surfaces shall not be less than 6:12, or as specified by the Architect.
4. The length of inclined surfaces shall not exceed 12 inches (30 cm).
5. All areas requiring an impact resistance classification higher than "standard", as defined by EIMA Standard 101.86, shall be as detailed in the drawings and described in the contract documents. Refer to Table #1 of this specification.
6. Expansion Joints
  - a. Design and location of expansion joints in the **UNI-TEX A-1** System is the responsibility of the project designer and shall be noted on the project drawings. As a minimum, expansion joints shall be placed at the following locations:
    - 1) Where expansion joints occur in the substrate system.
    - 2) Where building expansion joints occur.
    - 3) At floor lines in wood frame construction.
    - 4) Where the **UNI-TEX A-1** System abuts dissimilar materials.
    - 5) Where the substrate changes.
    - 6) In continuous elevations at intervals not exceeding 75 feet (22.7 meters).
    - 7) Where significant structural movement occurs, such as changes in roofline, building shape or structural system.
  - b. Expansion and contraction of the field-applied EIFS and adjacent materials shall be taken into account in the design of expansion joints, with proper consideration given to sealant properties, installation conditions, temperature range, coefficient of expansion of materials, joint width-to-depth ratios, etc.
7. Terminations
  - a. The **UNI-TEX A-1** System shall be held back from adjoining materials a minimum of ¾ inch to allow for sealant application, or as specified by the Architect.
  - b. The EPS insulation board shall be terminated a minimum of 6 inches above finished grade, or as specified by the Architect.
  - c. Sealants
    - 1) Shall be manufactured and supplied by others.
    - 2) Shall be compatible with **UNI-TEX A-1** System materials. Contact UNITED COATINGS for a listing of approved sealants.
    - 3) The sealant backer rod shall be of closed cell type.
8. Vapor Retarders – Use and location of vapor retarders within a wall assembly is the responsibility of the project designer and shall be noted on the project drawings and specifications.
9. The use of dark colors must be considered in relation to wall surface temperature as a function of local climatic conditions. Use of dark colors in high temperature climates can affect the performance of the system.

### D. Performance Requirements

1. The **UNI-TEX A-1** System shall have been tested for durability as follows:
  - a. Abrasion Resistance: ASTM D 968 (Federal Test Standard 141A, Method 6191)
  - b. Water Absorption/Freeze-Thaw: 60 cycles of the following: Soak in water at 20°C (68°F) for four days, then expose to -10°C (14°F) for two hours, followed by 20°C (68°F) for two hours. Results shall show no checking, cracking or splitting.
  - c. Accelerated Weathering: ASTM G 23 (Federal Test Standard 141A, Method 6151)
  - d. Mildew Resistance: MIL Standard 810B
  - e. Moisture Resistance: ASTM D 2247 (Federal Test Standard 141A, Method 6201)
  - f. Salt Spray Resistance: ASTM B 117 (Federal Test Standard 141A, Method 6061)
  - g. Water Penetration: ASTM E 331
  - h. Water Vapor Transmission: ASTM E 96 Water Method, Procedure B; Standard lamina 10 g/hr·m<sup>2</sup> (14 gr/hr·ft<sup>2</sup>).
2. The **UNI-TEX A-1** System shall have been tested for structural performance as follows:
  - a. Bond Strength: ASTM C 297
  - b. Full Scale Structural Tests: ASTM E 330
  - c. Impact Resistance: In accordance with EIMA Standard 101.86. Refer to Table #1 on the next page.

3. The **UNI-TEX A-1** System shall have been tested for fire performance as follows:
  - a. Flame Spread – ASTM E 84. When tested individually:
    - 1) The EPS insulation board shall have a Flame Spread index not exceeding 25 and a Smoke Developed index not exceeding 450.
    - 2) The adhesives and coatings shall have a Flame Spread index not exceeding 20 and a Smoke Developed index not exceeding 10
  - b. ASTM E 108 (Modified)
  - c. ASTM E 119 One-Hour Assembly
  - d. ASTM E 119 Two-Hour Assembly
  - e. UBC 26-4 (Formerly UBC 17-6)

**Table #1**

<b>EIMA Classification</b>	<b>Impact Range J (in-lbs)</b>	<b>Reinforcing Mesh (oz/sq yd)</b>	<b>Test Results J (in-lbs)</b>
Standard	3-6 (25-49)	Standard (4.5)	4 (36)
High	10-17 (90-150)	Medium (12.5)	12 (108)
Ultra High	>17 (>150)	Strong (15)	18 (162)
Ultra High	>17 (>150)	Ultra (20)	40 (352)

**1.04 SUBMITTALS**

- A. Product Data – The Contractor shall submit to the Owner/Architect, Manufacturer’s product data sheets describing the products that will be used on this project.
- B. Shop Drawings – Provide drawings showing wall layout, all details, connections and expansion joints.
- C. Samples – The Contractor shall submit to the Owner/Architect two samples of the **UNI-TEX A-1** System for each finish, texture and color to be used on the project. The same tools and techniques proposed for the actual installation shall be used. Samples shall be of sufficient size to accurately represent each color and texture to be utilized on the project.
- D. Test Reports – When requested, the Contractor shall submit to the Owner/Architect copies of selected test reports verifying the performance of the **UNI-TEX A-1** System.
- E. Certificates: Submit a copy of Approved Applicator’s current certificate of approval from the EIFS Manufacturer.

**1.05 QUALITY ASSURANCE**

- A. Qualifications
  1. System Manufacturer: Shall be UNITED COATINGS MANUFACTURING CO. All materials shall be manufactured or sold by UNITED COATINGS and shall be purchased from UNITED COATINGS or its authorized Distributor.
  2. Contractor: Shall be knowledgeable in the proper installation of the **UNI-TEX A-1** System and shall be experienced and competent in the installation of Exterior Insulation and Finish Systems. Additionally, the Contractor shall possess a current Contractor Certificate from UNITED COATINGS.
  3. Insulation Board Manufacturer: Shall be capable of producing the expanded polystyrene (EPS) in accordance with UNITED COATINGS’ specification for insulation board.
- B. Regulatory Requirements
  1. The EPS shall be separated from the interior of the building by a minimum 15-minute thermal barrier.
  2. The use and maximum thickness of EPS shall be in accordance with the applicable building codes.
- C. Certifications
  1. The surface burning characteristics of the EPS shall be classified by Underwriters Laboratories and be listed in the U.L. Building Materials Directory as having a Flame Spread and Smoke Development rating of not greater than 25 and 450 respectively.
  2. The **UNI-TEX A-1** System shall be recognized by ICBO ES Model Building Code organization.
  3. The **UNI-TEX A-1** System shall meet the criteria set forth in the Health and Human Services Technical Bulletin No. 30.
  4. The **UNI-TEX A-1** System shall be approved for use in this project by the applicable state and/or building code authorities.
- D. Mock-Up
  1. The Contractor shall, before the project commences, provide the Owner/Architect with a mock-up for approval.
  2. The mock-up shall be of suitable size as required to accurately represent the products being installed, as well as each color and texture to be utilized on the project.

3. The mock-up shall be prepared with the same products, tools, equipment and techniques required for the actual application.
4. The approved mock-up shall be available and maintained at the jobsite.

### **1.06 DELIVERY, STORAGE AND HANDLING**

- A. All **UNI-TEX** materials shall be delivered to the jobsite in the original, unopened packages with labels intact.
- B. Upon arrival, materials shall be inspected for physical damage, freezing or overheating. Questionable materials shall not be used.
- C. Materials shall be stored at the jobsite in a cool, dry location, out of direct sunlight, protected from weather and other damage. Minimum storage temperatures should be no less than 50°F (10°C) and no more than 100°F (38°C).
- D. Materials shall be stored in accordance with OSHA and local Fire Code requirements.
- E. Handling: Comply with Manufacturer's instructions.

### **1.07 PROJECT CONDITIONS**

- A. Environmental Requirements
  1. Application of wet materials shall not take place during inclement weather unless appropriate protection is provided. Protect materials from inclement weather until they are dry and cured.
  2. Application of wet materials shall be at a minimum ambient temperature of 40°F (4°C) and rising at the time of installation of the EIFS. These temperatures shall be maintained for a minimum of 24 hours thereafter, or until completely dry. In high humidity conditions, longer dry times will be required.
- B. Existing Conditions – The Contractor shall have access to electric power, clean water and a clean work area at the location where the **UNI-TEX** materials are to be applied.

### **1.08 SEQUENCING AND SCHEDULING**

- A. Installation of the **UNI-TEX A-1** System shall be coordinated with other construction trades.
- B. Sufficient manpower and equipment shall be employed to ensure a continuous operation, free of cold joints, scaffold lines, texture variations, etc.

### **1.09 LIMITED MATERIALS WARRANTY**

UNITED COATINGS shall provide a written, standard five (5) year limited warranty against defective materials, upon written request. UNITED COATINGS shall have no liability for the application of the materials, and makes no other warranties, expressed or implied.

### **1.10 DESIGN RESPONSIBILITY**

It is the responsibility of both the specifier and the purchaser to determine if a product is suitable for its intended use. The designer selected by the purchaser shall be responsible for all decisions pertaining to design, detail, structural capability, attachment details, shop drawings and the like. UNITED COATINGS has prepared guidelines in the form of specifications, application details and product data sheets to facilitate the design process only. UNITED COATINGS is not liable for any errors or omissions in design, detail, structural capability, attachment details, shop drawings, or the like, whether based upon the information prepared by UNITED COATINGS or otherwise, or for any changes that purchasers, specifiers, designers or their appointed representatives may make to UNITED COATINGS' published comments.

### **1.11 MAINTENANCE**

- A. All **UNI-TEX** products are designed to minimize maintenance. However, as with all building products, depending on location, some cleaning may be required. Consult your UNITED COATING'S Maintenance Guidelines brochure or Representative for recommendations on cleaning and recoating of the **UNI-TEX** System.
- B. Sealants and flashings should be inspected on a regular basis, and repairs made as necessary.
- C. Provide the following materials for maintenance and repairs:
  1. 1 gallon of each finish and color.
  2. 1 gallon of adhesive.
  3. 20 square feet of standard reinforcing mesh.
  4. 20 square feet of insulation board.

## **PART II - PRODUCTS**

### **2.01 MANUFACTURING**

- A. Specifications are based upon the **UNI-TEX A-1** (PB) System as manufactured by: UNITED COATINGS, 19011 East Cataldo Avenue, Greenacres, Washington 99016. Phone: 509-926-7143 / 800-541-4383. Fax: 509-928-1116. Website: [www.unitedcoatings.com](http://www.unitedcoatings.com).
- B. All components of the **UNI-TEX A-1** System shall be obtained from UNITED COATINGS or an authorized Distributor.

## 2.02 MATERIALS

- A. Portland Cement: Shall be Type I, I-II or II, meeting ASTM C 150, white or gray in color, fresh and free of lumps.
- B. Water: Shall be clean and free of foreign matter.
- C. Mechanical Fasteners: Shall be Demand PB Washers, Wind-Lock's Wind Devil™ plates, or equivalent, used in conjunction with corrosion-resistant fasteners appropriate for the substrate system.

## 2.03 COMPONENTS

- A. Trim accessories: Utilize accessories from Vinyl Corporation, Plastic Components or approved equal, as specified by the Architect for the application. All trim accessories must be UV treated and suitable for exterior use.
- B. Adhesives: Used to adhere the EPS to the substrate, shall be compatible with the substrate and the EPS.
  - 1. Cementitious (Liquid Polymer): Shall be **WALL-BOND 90**, a liquid polymer-based material, which is field mixed with Portland Cement for use over non wood-based substrates.
  - 2. Cementitious (Ready-Mixed): Shall be **WALL-BOND 70** dry blend, a cementitious copolymer-based product, which is field mixed with water for use over non wood-based substrates.
  - 3. Non-Cementitious: Shall be **INSULBOND**, a factory-mixed, water-based adhesive for use over wood-based substrates.
- C. Insulation Board: Utilize expanded polystyrene (EPS) meeting **UNI-TEX** Specifications for Insulation Board, supplied by an EPS board supplier that has been approved by UNITED COATINGS. Reference ASTM C 578 Class II, aged (air dried) for 6 weeks at 68°F minimum, or for 5 days at 140°F prior to use.
  - 1. Flame Spread (ASTM E 84 or UL 723): Less than 25
  - 2. Average Density: 1.0 pound per cubic foot
  - 3. K-Value: 0.23 per inch
  - 4. Thickness: 1 inch, or as otherwise indicated in the specification
  - 5. Dimensions: 24"X 48"
- D. Base Coat: Shall be compatible with the EPS insulation board and all specified reinforcing mesh.
  - 1. Cementitious (Liquid Polymer): Shall be **WALL-BOND 90**, a liquid polymer-based material, which is field mixed with Portland Cement.
  - 2. Cementitious (Ready Mixed): Shall be **WALL-BOND 70** dry blend, a cementitious co-polymer-based product, which is field mixed with water.
- E. Reinforcing Mesh: Shall be treated, balanced, open weave, glass fiber type compatible with other system materials and available in the following weights:
  - 1. Standard: 4.5 oz/yd<sup>2</sup>
  - 2. Medium: 12.5 oz/yd<sup>2</sup>
  - 3. Strong: 15 oz/yd<sup>2</sup>
  - 4. Ultra: 20 oz/yd<sup>2</sup>
  - 5. Detail (Short Rolls): 4.3 oz/yd<sup>2</sup>
  - 6. Corner Mesh: 7.2 oz/yd<sup>2</sup>
- F. Finishes: Shall be 100% acrylic, per the type, color and texture as selected by the Architect/Owner, in one or more of the following textures:
  - a. Striato: Swirl texture
  - b. Planato: Heavy Sand texture
  - c. Veneto: Medium Sand texture
  - d. Capri: Fine Sand texture
  - e. Cortina: Free-Style texture
- G. Other Coatings, Primers & Sealers: Shall be water based, as per the following:
  - 1. **Canyon Tone Stain "W"**: Acrylic-based, penetrating stain for color priming and color restoration.
  - 2. Aquathon: 100% elastomeric acrylic, non-textured finish for color priming, or for color restoration over a surface that exhibits hairline cracking, or where additional waterproofing is necessary.
  - 3. Canyon Tone Clear: A clear, penetrating silane/silicone sealer used to provide additional water resistance to the finish.

## **PART III - EXECUTION**

### 3.01 EXAMINATION

- A. Prior to installation of the **UNI-TEX A-1** System, the Contractor shall ensure that the substrate:
  - 1. Is of a type listed in Section 1.03.C.1.
  - 2. Is flat within 1/4 (.6 cm) inch within a 4 foot (1.6 m) radius.
  - 3. Is sound, dry, free from release agents and all other surface contaminates, and contains no surface voids, projections or other conditions that may interfere with the **UNI-TEX A-1** System installation. Also ensure that all connections are tight and secure.
- B. The Contractor shall notify the General Contractor and/or Architect/Owner of any and all discrepancies prior to proceeding with the installation.

- C. Prior to the installation of the **UNI-TEX A-1** System, the Architect or General Contractor shall insure that all necessary flashings and other waterproofing details have been completed, if such completion is required prior to the **UNI-TEX A-1** System application.

### 3.02 SURFACE PREPARATION

- A. The substrate shall be prepared so it is free of foreign materials such as oil, dust, dirt, form-release agents, efflorescence, paint, wax, water repellents, moisture, frost or any other materials that could inhibit adhesion.
- B. Masonry, concrete and brick substrates may require application of a leveling coat of **WALL-BOND 70** or **WALL-BOND 90** to ensure a smooth surface prior to installation of the **UNI-TEX A-1** System.

### 3.03 MIXING

#### A. Adhesives / Base Coats

1. **INSULBOND** Factory-Ready Liquid Polymer Adhesive For Wood Base Sheathings:
    - a. Mixing is not normally required, however, if the material has been stored for a long period of time some settling may occur. Stir as necessary until a smooth, even consistency is achieved.
    - b. Do not thin the material, as thinning will reduce the consistency and decrease the vertical hold.
  2. **WALL-BOND 70** Cementitious, Mixed Dry Polymer Adhesive For Non-Wood Base Sheathings and Base Coat Application:
    - a. Use a clean container, free of foreign substrates, for mixing and preparing the material. Do not use a container that has been used for or cleaned with a petroleum product.
    - b. Use a mixer similar to Goldblatt's Jiffy Mixer No. 15311H7, powered by a ½" (1.2 cm) drill at 400-500 RPM.
    - c. Add 1¾ gallons of clean water to the empty pail.
    - d. Slowly add **WALL-BOND 70** dry mix to the water from the supplied 50 pound bag while mixing constantly.
    - e. Once mixed, allow the product to sit for a minimum of 15 minutes, then temper the mixture by stirring again. If the mixture appears too stiff, add a small amount of water to achieve the desired workability.
    - f. Use the mixture immediately.
  3. **WALL-BOND 90** Cementitious Liquid Polymer Adhesive For Non-Wood Base Sheathings and Base Coat Application:
    - a. Use a clean container, free of foreign substrates, for mixing and preparing material. Do not use a container that has been used for or cleaned with a petroleum product.
    - b. Use a mixer similar to Goldblatt's Jiffy Mixer No. 15311H7, powered by a ½" (1.2 cm) drill at 400-500 RPM.
    - c. Measure a given weight of **WALL-BOND 90** into one container, and add an equal weight of Portland Cement Type I/II into another container.
    - d. While stirring the **WALL-BOND 90**, add small, incremental amounts of Portland Cement to obtain a final ratio of one-to-one by weight. Continue stirring until the mixture is homogenous.
    - e. Once mixed, allow the product to sit for a minimum of 15 minutes, then temper the mixture by stirring again. If the mixture appears too stiff, add a small amount of water to achieve the desired workability.
    - f. Use the mixture immediately.
- B. Finish Coating: **UNI-TEX** – All Textures:
1. Thoroughly stir the **UNI-TEX** Finish with a mixer similar to Goldblatt's Jiffy Mixer No. 15311H7, powered by a ½" drill at 400-500 RPM, until a uniform, workable consistency is obtained. A small amount of water may be added to adjust workability. If colorant units are used, they are added and mixed in at this time.
  2. Do not use additives or other materials such as rapid binders, antifreeze, accelerators, fillers or pigments unless pre-approved by UNITED COATINGS.
  3. Apply coating immediately after mixing. Keep container closed when not in use. Pot life will depend on ambient temperature and humidity conditions.

### 3.04 APPLICATION

#### A. Insulation Board Installation:

1. Precut insulation board as required to fit openings, corners and projections.
2. Begin application at the base of the wall, from a firm, permanent or temporary support.
3. Apply adhesive to the back of the clean EPS surface using one of the following methods, so as to maintain a minimum 32% contact area:
  - a. Ribbon and Dab Method: Using a trowel, apply a 2" ribbon, approximately ⅜" thick, of mixed adhesive around the entire perimeter of the board, followed by 8 dabs at 4" in diameter placed evenly within the ribbon. Do not apply adhesive to the sides of the insulation board.
  - b. Notched Trowel Method: Apply **WALL-BOND** using a ½" notched trowel or **INSULBOND** using a ¼" (.6 cm) notched trowel. Trowel-apply adhesive so that the entire surface of the insulation board is covered. The beads should stand out a minimum of ⅜" (.8 cm) from the surface, spaced approximately 1½" (3.7 cm) apart, and must run vertically with respect to the wall surface. Do not apply adhesive mixture to the sides of the insulation board.
4. Apply insulation board to the building substrate with the long edge oriented horizontally, and with its joints offset with respect to the substrate joints. Install using a running board pattern, tamping boards in place to ensure optimum adhesion.
5. Stagger joints of each successive row, and interlock boards at the corners.
6. EPS insulation board smaller than 24" X 48" (.6 to 1.2 m) may be used at corners and other such areas.

**B. Mesh & Base Coat Installation:**

1. Reverse roll as necessary to eliminate the tendency of the mesh to curl.

***Include the following for Standard Mesh & Base Coat Installation***

2. Standard Mesh & Base Coat:
  - a. Using a stainless steel trowel, apply the base coat mixture to the EPS surface to a uniform thickness of  $\frac{1}{16}$ " (.15 cm), or approximately  $1\frac{1}{2}$  times the thickness of the mesh.
  - b. Using a stainless steel trowel, immediately embed the Standard Reinforcing Mesh into the wet base coat mixture. Work from the center of the mesh towards the edges to smooth out any wrinkles.
  - c. Smooth the surface of the base coat mixture with the trowel until the reinforcing mesh is fully embedded. Add additional base coat as necessary to totally encapsulate the reinforcing mesh.
  - d. The pattern of the mesh shall not reflect through the surface of the adhesive mixture.
  - e. Overlap reinforcing mesh pieces a minimum of  $2\frac{1}{2}$ " (6.3 cm) on all sides.
  - f. For detailing around windows, doors, corners and other penetrations, see **UNI-TEX A-1** System details for proper back-wrapping instructions.
  - g. Provide a minimum of 24 hours cure time to allow the base coat to form a positive bond.
  - h. Protect base coat from damage and inclement weather until fully cured.

***Include the following for Double Standard Mesh & Base Coat Installation***

2. Double Mesh & Base Coat: Provide the following at ground floor applications, facades exposed to abnormal stress or at other potential impact areas.
  - a. When double layers of Standard Reinforcing Mesh are used for local, or spot reinforcing, install the small reinforcement piece first.
  - b. Install the first mesh layer as described in the Standard Mesh & Base Coat application procedure.
  - c. After the base coat has sufficiently cured (approximately 24 hours), examine the surface for projections and loose strands of mesh. Correct as necessary to produce a flat surface.
  - d. Install the second layer, as described in the Standard Mesh & Base Coat application procedure, over the first mesh layer.
  - e. Offset the edges and seams of the mesh within the two layers.
  - f. Provide a minimum of 24 hours cure time to allow the base coat to form a positive bond.
  - g. Protect the base coat from damage and inclement weather until fully cured.

***Include the following for High Impact Mesh or Intermediate Mesh & Base Coat Installation***

2. High Impact Mesh or Intermediate Mesh & Base Coat Installation: Provide the following at ground floor applications, facades exposed to abnormal stress or other potential impact areas:
  - a. Using a stainless steel trowel, apply the base coat mixture to the EPS surface to a uniform thickness of  $\frac{3}{32}$ " (.23 cm), or approximately  $1\frac{1}{2}$  times the thickness of the mesh.
  - b. Immediately embed the High-Impact Mesh or Intermediate Mesh into the wet base coat mixture using a stainless steel trowel. Work the mesh into the base coat mixture, starting from the center of the mesh and working towards the edges while smoothing out wrinkles.
  - c. Smooth the surface of the base coat mixture with the trowel until the reinforcing mesh is fully embedded. Add additional base coat as necessary to totally encapsulate the reinforcing mesh.
  - d. The pattern of the mesh shall not reflect through the surface of the adhesive mixture.
  - e. Ends of the adjacent heavy-duty mesh pieces shall be tightly butted, but not over-lapped.
  - f. Provide a minimum of 24 hours cure time to allow the base coat to form a positive bond.
  - g. Protect the base coat from damage and inclement weather until fully cured.
  - h. After the base coat has cured, examine the surface for projections and loose strands of mesh. Correct as necessary to produce a flat surface.
  - i. Install the second layer, consisting of base coat mixture and Standard Mesh, over the High-Impact or Intermediate Mesh layer as described in the Standard Mesh & Base Coat application procedure.

**C. Finish Coating – All Textures:**

1. Using a clean, stainless steel trowel, apply finish continuously and in one operation to the entire wall surface, maintaining a wet edge to avoid cold joints.
2. Once finish has been evenly applied, tight float the wall using either a plastic trowel or other appropriate tool to achieve the desired texture.
3. Do not allow the finish to set up in any specific area without a natural termination point.
4. Work shall proceed from the center, working toward the joints and corners.
5. Until it is dry, protect the finish from airborne pollutants, weather and other possible surface contaminants.

**D. Sealant:**

1. System materials shall be fully cured prior to sealant installation.
2. Install sealant joints as per the **UNI-TEX A-1** System detail drawings. Also consult the Sealant Manufacturer for recommendations pertaining to project conditions.
3. Color of sealant shall either match the finish or be selected by the Architect or Owner.

### 3.05 FIELD QUALITY CONTROL

- A. The Contractor shall be responsible for the proper application of all **UNI-TEX** materials.
- B. **UNITED COATINGS** assumes no responsibility or liability for on-site inspection or application of its products.
- C. If required, the Contractor shall certify in writing the quality of work performed relative to the substrate, system details, installation procedures, workmanship and the specific products used.
- D. If required, the EPS Supplier shall certify in writing that the EPS meets **UNI-TEX A-1** System specifications.
- E. If required, the Sealant Contractor shall certify in writing that the sealant application is in accordance with the Sealant Manufacturer's and **UNITED COATINGS'** recommendations.

### 3.06 CLEANING

- A. All excess **UNI-TEX A-1** System materials shall be removed from the jobsite by the Contractor in accordance with contract provisions and as required by applicable law.
- B. All surrounding areas where the **UNI-TEX A-1** System has been installed shall be left free of debris and foreign substances resulting from the Contractor's work.

### 3.07 PROTECTION

The **UNI-TEX A-1** System shall be protected from weather and other damage until permanent protection in the form of flashings, sealants, etc. are fully installed.

## SPECIFICATION DETAILS

This document contains the Manufacturer's Standard Specification for the **UNI-TEX A-1** System. These specifications follow the Construction Specification Institute's 3-part format.

### CUSTOMIZING THE UNI-TEX A-1 SYSTEM SPECIFICATION

These specifications cover the common methods of installing the **UNI-TEX A-1** System. Most projects utilize only a few of the possible combinations of these materials and methods. To tailor the specifications to meet specific project requirements, simply use the above sections that are pertinent. It may also be prudent to place certain parts of the **UNI-TEX A-1** System Specification into the appropriate sections of the overall project specification, such as sealants and framing. The project design professional is ultimately responsible for ensuring that the project specifications are suitable for the project. For specification preparation assistance, contact your **UNI-TEX** Distributor or **UNITED COATINGS'** Technical Services Department.

### WARNING

The **UNI-TEX A-1** System is designed as a barrier wall system, and includes details designed to prevent water from entering the System. These specifications should be followed, and proper details adhered to, in order to prevent water intrusion, which could result in damage to the System or other building elements. Care should be taken to insure that all building elements, including without limitations roof designs, windows, flashings, sealants, etc., are compatible with this System.

### DISCLAIMER

Information contained in this specification conforms to standard detail and product recommendations for the installation of the **UNI-TEX A-1** System products as of the date of publication of this document, and is presented in good faith. **UNITED COATINGS** assumes no liability, expressed or implied, as to the architecture, engineering or workmanship of any project. To insure that you are using the latest, most complete information, contact **UNITED COATINGS'** Technical Services Department at: 509-926-7143 / 800-541-4383. Fax: 509-928-1116. Website: [www.unitedcoatings.com](http://www.unitedcoatings.com).



*Our products are guaranteed to meet established quality control standards. Information contained in our technical data is based on laboratory and field testing, but is subject to change without prior notice. No guarantees of accuracy are given or implied, nor does UNITED assume any responsibility for coverage, performance or injuries resulting from storage, handling or use of our products. Liability, if any, is limited to product replacement or, if applicable, to the terms stated within the executed project warranty.*