

## Section 092423 Portland Cement Plaster

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### Part 1 GENERAL

#### 1.01 SUMMARY

A. Ultrakote 1 is a traditional one-coat stucco system comprised of a 3/8" to 1/2" thick base coat applied as "one coat" brown coat, primer and acrylic or elastomeric finish. Commonly referred to as Hard Coat Stucco (HCS).

#### 1.02 SCOPE OF WORK

A. Provide all materials, labor and equipment to install the Ultrakote 1 Portland Cement Plaster System including primers and finishes.

B. Related sections:

1. Section 03300 Concrete
2. Section 04200 Masonry
3. Section 04500 Plywood
4. Section 05400 Light gauge load-bearing metal framing
5. Section 07260 Building paper
6. Section 07900 Sealants
7. Section 08000 Doors and windows
8. Section 09206 Metal lath
9. Section 09250 Extension gypsum substrates

#### 1.03 REFERENCE DOCUMENTS

A. Construction standards:

1. ASTM C150-99a Standard specification for portland cement
2. ASTM C847-95 Standard specification for metal lath
3. ASTM C926-98a Standard specification for application of portland cement-based plaster
4. ASTM C933-96a Standard specification for welded wire lath
5. ASTM C1032-96 Standard specification for woven wire plaster base
6. ASTM C1063-99 Standard specification for installation of lathing and furring to receive interior and exterior portland cement-based plaster.

B. Code Jurisdictions:

1. ICBO AC11 Cementitious exterior wall coatings
2. ER-1471 ICBO Evaluation report
3. IBC and IRC Building Codes

#### 1.04 TERMS / DEFINITIONS

- A. Applicator - the contractor that applies the Hard Coat Stucco (HCS) System
- B. Base coat
- C. Reinforcement
- D. Casing
- E. Expansion joints
- F. Control joint
- G. Sealant joint
- H. Primer
- I. Finish coat

## 1.05 QUALITY ASSURANCE

### A. Special instructions

1. Special instructions of this system are required in accordance with the International Building Code/2000, sections 1403.2 and 1704.12 when the system is applied over non-masonry (sheathed) substrates. Follow the guidelines of the local jurisdictional building authority to ensure that all the necessary inspections have been accomplished.

2. The general contractor will be responsible for inspecting the project to ensure that all the exclusions (flashing and sealants for example) made specifically listed in the accepted project bid have been completed prior to starting the HCS System application.

### B. Project mock-up

1. Construct a stucco mock-up using the same materials and techniques that will be employed on actual project.

2. Show the finish color(s), textures and details as per the construction documents.

3. Proceed with the actual project only after the mock-up has been approved.

4. Maintain the mock-up on site and remove it only after the project has been completed.

### C. Design and Detailing

#### 1. General

a. The Ultrakote 1 current published details, specifications, data sheets, technical bulletins and other literature/information are minimum standards and guidelines that shall be followed when designing and detailing a project with the Ultrakote 1 System.

b. Details shall conform to Ultrakote details and shall be consistent with the project requirements.

c. The minimum slope of inclined surfaces shall not be less than 6" (152 mm) in 12" (304 mm) with a maximum length 12" (304 mm) unless approved in writing by Ultrakote. Inclined surfaces which are or could be defined as roofs by the building codes are not approved applications by Ultrakote.

d. All of the EPS insulation boards used as decorative details must be completely encapsulated with the Ultrakote base coat and reinforcing mesh.

e. The use of dark colors must be considered in relation to wall temperature as a function of local climatic conditions.

f. The Ultrakote 1 System shall be recognized by IBC and IRC Model Code Organizations.

g. It is the responsibility of the design professional to determine if a product is suitable for their intended use. The design professional of the project shall be responsible for all decisions pertaining to the design, details, structural capability, attachment details, shop drawings and the like. Ultrakote has prepared specifications, details and product information guides to assist as guidelines for the use and installation of the products. Ultrakote is not responsible for the design, details, structural capability, attachment details and shop drawings whether it is based on Ultrakote information or not.

#### 2. Substrates

a. Acceptable substrates are water-resistant core exterior grade gypsum sheathing (ASTM C1396), Dens-Glass Gold<sup>®</sup> sheathing (ASTM C1177), fiberboard ANSI/AHA A 194-85, exposure 1 (Grade C-D or better) plywood, expanded polystyrene insulation board ASTM C578, exposure 1 oriented strand board, cement board (ASTM C1325), poured concrete and masonry units.

- b. Painted and otherwise coated surfaces of brick, unit masonry, stucco and concrete shall be inspected and prepared as approved by Ultrakote Products Llc. technical department before application. Paint-on surface consolidates or primers shall not be used to bond Ultrakote 1 to painted surfaces.
- c. Deflection of the substrate systems shall not exceed  $L/360$ .
- d. The Ultrakote technical department, in writing, prior to the application, shall approve other substrates.
- e. The applicator shall verify that the proposed substrate is acceptable prior to the Ultrakote 1 installation.
- f. The project engineer or architect shall approve the substrate systems with regard to structural performance.

### 3. System joints

- a. Expansion joints in the system are required at building expansion joints, at prefabricated panel joints, where substrates change and where structural movement is anticipated.
- b. Control joints are requires at a minimum of every  $13\text{m}^2$  ( $144\text{ ft}^2$ ) of wall surface area and where specified by the design professional.
- c. The maximum uncontrolled length or width is 5.5 lineal meters (18 lineal feet) and a maximum uncontrolled length to ratio of 2 1/2:1.
- d. Expansion/control joints may be placed at the desecration of the design professional for aesthetic or visual design purposes.

### 4. Sealants (Section 07900)

- a. Sealant joints are recommended at all dissimilar materials, such as doors, windows and masonry facades.
- b. Sealants and backer rod installed by others are required at dissimilar materials and should be installed as soon as the finish has cured.
- c. All penetrations through the system such as hose bibs, dryer vents, lighting fixtures, air-conditioning hoses, etc. must be properly sealed at the substrate prior to the system application to insure the integrity of the system.
- d. A secondary sealant installed by others should be used at all penetrations through the Ultrakote 1 System after the system has been completed and cured.

### 5. Flashing / Secondary seals (sections 07620 and 07900)

- a. Expandable foam seal may be used under and around windows, doors and at all penetrations. Plan this seal to block any air or water infiltration at any opening in the wall system and to protect the sheathing from any primary seal failure or failure in a wall penetration component. Reference Ultrakote Product Information Guides for additional information.
- b. Metal flashing may be installed at heads of openings if required by the product manufacturer.
- c. Continuous metal or other approved flashing shall be installed at heads of ganged windows.
- d. Flashing shall be installed at rooflines in a manner to prevent any intrusion of water behind Ultrakote 1 System. This shall include the use of roof kick-out flashing at roof terminations and other details promoted by the NRCA.
- e. When the Ultrakote 1 is applied to the chimney, a chimney cricket shall be installed according to the recommendations of the NRCA.

f. Seals for electrical and plumbing installations shall conform to the recommendations of NEC and the locally recognized plumbing code.

g. Decks and balconies must be flashed before the Ultrakote 1 System is installed. Refer to Ultrakote details.

#### 6. Surface mounted objects

a. Surface mounted objects are those items that are mounted on the surface of the Ultrakote 1 System.

b. Objects mounted on the surface include but are not limited to signs, handrails, downspouts, etc.

c. The mounting bolts or screws must be inserted through a compression sleeve filled with sealant.

d. The compression sleeve should be equal to the thickness of the Ultrakote 1 System (from the substrate to the finish) to prevent any compression or indentation of Ultrakote 1 System.

e. The diameter of the compression sleeve should be 1/8" greater than the mounting bolts or screws.

f. The compression sleeves must be of a non-corrosive material.

#### D. Qualifications

1. The Stucco Manufacturer shall have manufactured portland cement plaster in the United States for at least 10 years.

2. The applicator shall be knowledgeable in the proper installation of the Ultrakote 1 System.

3. The applicator shall have demonstrated the ability to install the system on projects of similar size and complexity.

4. The applicator shall provide the proper equipment, manpower and supervision on the jobsite to install the system in compliance with project plans and specifications.

5. The insulation board manufacturer shall be approved by Ultrakote to produce EPS in accordance with Ultrakote specifications.

6. The sealant contractor shall be experienced in the installation of high performance industrial and commercial sealants (section 07900).

7. When specified erect a sample wall mock-up of the Ultrakote 1 System using materials and joint details required for final work. Provide special features as directed for sealant and contiguous work. Build mock-up at the site where directed of full-thickness, indicating the proposed color, texture and workmanship to be expected in the completed work. Obtain architect's acceptance of the mock-up in regard to aesthetic quality before start of work. Retain mock-up during construction as a standard for judging completed work. Do not alter, move or destroy mock-up until work is completed and until final acceptance of the project by architect.

#### 1.06 SUBMITTALS

A. On request the applicator shall submit a list of completed projects of like size and complexity.

B. The applicator shall submit a certificate of training indicating that they have been given instructions on the proper installation of the Ultrakote 1 System.

C. On request the applicator shall submit the required Ultrakote 1 current literature, brochures, specifications and details.

D. On request the applicator shall submit samples of each finish texture and color selected. The samples shall be prepared with the same tools and techniques required for the actual project. Color and texture should be approved based on the jobsite mock-up samples.

E. On request the applicator shall provide any shop drawings that may be applicable to the project for approval by the project architect.

F. On request the applicator shall receive one sample each of any wall penetrations (e.g. light box, exterior electrical box, plumbing fixtures, pipe penetration sizes, coping cap sizes, etc.).

### **1.07 DELIVERY STORAGE AND HANDLING**

A. Deliver, store and handle products under provisions of section 01600, 01610.

B. Deliver Ultrakote materials in original unopened packages with labels intact.

C. Protect Ultrakote materials during transportation and installation to avoid physical damage.

D. Store Ultrakote materials in cool, dry place protected from freezing. Store all liquid products at no less than 4°C/40°F.

E. Handle all products with appropriate precautions and care as per MSDS.

### **1.08 PROJECT SITE CONDITIONS**

A. Ambient air temperature shall be 40°F (4°C) or greater and rising at the time of installation of the Ultrakote products and shall remain at 40°F (4°C) or greater for at least 24 hours after application.

B. Supplemental heat and protection shall be provided as required when the temperature and conditions are not in accordance with installation requirements. Sufficient ventilation and time shall be provided to ensure that materials have sufficiently dried prior to removing supplemental heat.

C. Adequate protection shall be provided to prevent weather conditions (humidity, temperature and precipitation) from having an effect on the curing or drying time of Ultrakote materials.

D. Adjacent materials and the Ultrakote 1 System shall be protected during installation and while curing from weather and shall be protected from site damage.

E. Coordinate installation of the Ultrakote 1 System with related work specified in other sections to ensure that the wall assembly is protected to prevent water from getting behind the system. The cap flashing and backer rod and sealant shall be installed as soon as possible after the finish coat has been properly cured. When this is not possible, temporary protection shall be provided immediately in this area.

F. All sealants shall be installed in a timely manner. Protect open joints from water intrusion during construction with backer rod or temporary covering until permanently sealed.

G. Sufficient manpower and equipment shall be employed to ensure a continuous operation, free of cold joints, scaffolding lines and texture variations, etc.

### **1.09 REPAIR AND MAINTENANCE**

A. Refer to Ultrakote specific repair and maintenance manual.

B. The property owner or their designated representative shall inspect the sealants and flashings annually to verify that the products are not allowing water intrusion. If any sealant and/or flashing needs repair it should be done immediately.

### **1.10 SEQUENCING AND SCHEDULING**

A. Coordinate and schedule installation of the Ultrakote 1 with related work of other sections.

B. Coordinate and schedule installation of trim, flashing and joint sealers to prevent water infiltration behind the system.

**1.11 WARRANTY**

- A. Provide a Ultrakote 1 warranty based on the information provided by the applicator or the distributor following the completion of the system.
- B. Comply with Ultrakote 1 project review requirements and notification procedures to assure qualification for warranty.

**Part 2 PRODUCTS****2.01 MANUFACTURERS**

- A. Ultrakote 1 manufactured by Ultrakote Products, LLC., Phoenix, AZ or by toll blenders authorized by Ultrakote Products, LLC.

**2.02 MATERIALS**

- A. Insulation board, for insulation of the hard coat stucco system is expanded or extruded polystyrene not to exceed 2 lb density. Thickness of EPS shall not exceed 4". When installed over open framing the EPS insulation board must be tongue and groove at a minimum thickness of 1 1/2.

- B. Acrylic bonder: an acrylic-based bonding agent that will not re-emulsify.

- C. Metal lath or woven/welded wire: minimum No. 17 gauge, 25.4 mm (1") galvanized steel, woven wire fabric is required. Other laths shall comply with ASTM C933-80 (welded) and ASTM C1032-86 (woven). The lath is self-furred or furred when applied over all substrates except un backed polystyrene.

-OR

- Expanded metal lath: the lath shall comply with ASTM C847-93. Furring and self-furring requirements shall be as set forth for wire-fabric lath. Minimum weight is 0.665 kg/m<sup>2</sup> (3.4 lb/yd<sup>2</sup>) other acceptable welded laths shall comply with ASTM C933-80 and other acceptable woven laths shall comply with ASTM C1032-86.

- D. Plaster sand: must be clean and free from deleterious amounts of loam, clay, silt, soluble salts and organic matter. Sampling and testing must comply with ASTM C144 or ASTM C897. Plaster sand must be graded within the following limits:

Percent retained by weight retained on +- 2 percent.

U.S Standard Sieve	Min.	Max.
No. 4	0	0
No. 8	0	10
No. 16	10	40
No. 30	30	65
No. 50	70	90
No. 100	95	100

- E. Water: clean and potable without foreign matter.

- F. Ultrakote 1: Ultrakote 1 base coat concentrate is a portland cement-based fiber reinforced base coat with other proprietary ingredients. Ultrakote 1 base coat Pre-Mix is a portland cement based, fiber reinforced base coat with sand and other proprietary ingredients.

- G. Ultrakote dry-base is an insulation adhesive and/or base coat mixed with clean potable water and used to embed fiberglass-reinforcing mesh and adhere insulation boards or details.

- H. Ultrakote wet base is EPS insulation adhesive and/or base coat mixed with portland cement and clean potable water and used to embed fiberglass-reinforcing mesh and to adhere insulation boards or pop-out details.

- I. Ultrakote fiberglass-reinforcing mesh, balanced, open weave glass fiber reinforcing mesh, twisted multi-end strands treated for compatibility with Ultrakote components

1. #4 standard mesh, 4.5 Oz
2. #10 intermediate mesh, 10 oz
3. #20 high impact mesh, 20 oz (used in conjunction with standard mesh)

J. Ultraprime: a primer (clear or pigmented) used to seal the cement surface and to increase the adhesion of the finish coat.

K. Ultra-flex xp: an elastomeric finish available in multiple textures and colors.

L. Duratex: an acrylic based finish available in multiple textures and colors.

### 2.03 ACCESORIES

A. Trim: casing bead, corner bead, expansion joint and weep screed accessories shall meet the requirements of ASTM C1063. Accesories shall be: vinyl, meeting ASTM D-1784; galvanized, meeting ASTM A525 and ASTM A526; or zinc, meeting ASTM B69. Zinc accesories are recommended where highly humid or salt-laden service conditions exist.

1. Foundation weep screed: beveled edge designed to terminate finish system and drain internal moisture.
2. Casing bead: square edge style.
3. Corner bead: small radius nose style.
4. Control joints: w-shaped accordion profile style.
5. Expansion joints: two piece type slip-joint design or pair of casing beads spaced for application of backer rod sealant bead.

B. Fasteners: comply with ASTM C1063 for type and size of fastener required to rigidly secure materials in place.

C. A secondary weather barrier must be installed over sheathing substrates and wrapped into rough openings prior to installation of the Ultrakote 1 System. Suitable secondary weather barrier include minimum Grade D building paper complying with federal specifications UUB 790a or asphalt-saturated rag felt complying with UL standard number 55-A or other code-recognized equivalent. One layer of grade D 60 minute paper with one layer of EPS or extruded polystyrene with tongue and groove edges

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two layers Grade D 60 minute paper are required by Uniform Building Code (UBC) for wood-based sheathings. Check the applicable code and code compliance report for appropriate type

OR-

other approved secondary moisture barriers as approved by Ultrakote and acceptable by current code jurisdiction.

D. 4" or 9" wide, 20-mil thick, self-sealing, self-healing rubberized asphalt laminated to a polyethylene film.

## Part 3 EXECUTION

### 3.01 INSPECTION

A. Substrates

1. Prior to the application of the Ultrakote 1 System the substrate shall be examined for compliance with the contract documents and Ultrakote specifications. The substrate shall have no planar irregularities greater than 1/4" in 10'. The general contractor and design professional shall be advised in writing of any discrepancies. Work shall not proceed until unsatisfactory conditions are corrected.

2. Wall sheathings must be securely fastened pero applicable building code requirements.

3. Examine surfaces to receive system and verify that substrate and adjacent materials are dry, clean and sound. Verify that substrate surface is flat, free of fins or planar irregularities greater than 6mm in 3m (1/4" in 10').

**B. Flashings**

1. Heads, jambs and sills of all openings must be flashed with a minimum 230 mm (9") strip of secondary moisture barrier prior to window/door, HVAC, etc. installation.
2. Windows and openings shall be flashed according to design and building code requirements.
3. Individual windows that are ganged to make multiple units require continuous head flashing and/or the joints between the units must be fully sealed.

**C. Utilities**

1. The system must be properly terminated sealed with flashing or backer rod and sealant (by others) at all lighting fixtures, electrical outlets, hose bibs, dryer vents, etc. Refer to Ultrakote System Typical Details.

**D. Decks**

1. Wood decks must be properly flashed prior to system application. For proper application, refer to Ultrakote System Typical Details. The system must be terminated in a minimum of 25 mm (1") above all decks, patios, sidewalks, etc.

**E. Secondary moisture barrier**

1. Verify that the secondary moisture barrier is installed over the substrate per applicable building code requirements, manufacturer's specifications and Ultrakote System Typical Details prior to the application of the Ultrakote 1 System.

**F. Roof**

1. Verify that all roof flashings have been installed in accordance with the guidelines set by the Asphalt Roofing Manufacturers Association (ARMA).
2. Kick-out flashing must be installed where required prior to the application of Ultrakote 1 System. The kick-out flashing must be leak-proof and angled (min 100°) to allow for proper drainage and water division. Refer to Ultrakote System Typical Details.

G. Unsatisfactory conditions shall be reported to the general contractor and/or builder and/or architect and/or owner. Do not proceed until all unsatisfactory conditions have been corrected.

**3.02 MIXING**

A. General: No additives are permitted unless specified in product mixing instructions. Close containers when not in use. Prepare in a container that is clean and free of foreign substances. Do not use a container which has contained or been cleaned with a petroleum-based product. Use a mixer, which is clean and free of foreign substances. Clean tools with soap and water immediately after use.

B. Ultrakote 1 base coat: Ultrakote 1 concentrate base coat:

1. Place 17.4 to 22.7 liters (4.5 to 6 gallons) of clean potable water to mixer per one bag of Ultrakote base concentrate.
2. Add the bag(s) of Ultrakote concentrate.
3. Add one half, 45.4 to 54.4 kg (100-120 lbs) of the required plaster sand (ASTM C144 or ASTM C897)
4. Mix for 3-4 minutes at normal mixing speed while adding the remainder 45.4-54.4 kg (100-120 lbs) of the plaster sand. Allow material to set for 2-4 minutes and then remix adding water to achieve desired consistency.

## C. Ultrakote 1 base coat: Ultrakote 1 pre-mix base coat:

1. Place 1.98 to 3.78 liters (.5 to 1 gallon) of clean potable water in the mixer for each bag of pre-mix base coat.
2. Add the bag(s) of Ultrakote 1 pre-mix.
3. Mix for 4 to 5 minutes and then let the mixture slake for 3 to 4 minutes.
4. Re-mix to break the initial set add small amounts of water to adjust the consistency.

## D. Ultrakote wet base EPS insulation base coat and adhesive:

1. Using a drill motor and paddle mix the base coat adhesive to an even and smooth consistency.
2. Separate the base coat, half and half, into two pails. Use the existing pail for one half and a clean pail for the second half.
3. Add an equal volume of type II portland cement to each pail. This would be 25 pounds of cement to 25 pounds of adhesive.
4. Using the same drill motor and paddle mix each pail to a uniform consistency. Up to 12 ounces of clean water may be added to adjust the consistency and workability of the mix.

## E. Ultrakote dry base EPS insulation base coat and adhesive:

1. Place 3.78 liters (4 qts) of clean potable water in a clean plastic pail.
2. Slowly add the Ultrakote DB and mix using a drill motor and paddle. Do not exceed 400 rpm when mixing.
3. During the mixing add small amounts of water to adjust the consistency.
4. Mix completely and let the mixture slake for 4-5 minutes.
5. Prior to using, re-mix to break the initial set but do not add any additional water at this point.

## F. Ultrakote finishes; included but not limited to Ultra-flex and Duratex:

1. Thoroughly mix the factory-prepared material with a mixer to a homogeneous consistency.
2. A small amount of clean, potable water may be added to adjust workability.
3. Additives are not permitted.
4. Close container when not in use.
5. Clean tools with soap and water immediately after use.

**3.03 APPLICATION**

- A. Apply Ultrakote 1 System materials in accordance with Ultrakote specifications.
- B. Apply to approve substrates in accordance with manufacturer's instruction and government code requirements.
- C. Apply substrate Ultra Bond bonding agent (required for non-insulated concrete/unit masonry substrates) as per specifications to areas that will receive Ultrakote 1 System mixture the same day.

## D. Lath

## 1. Wire fabric lath

- a. Wire or lath shall be applied with minimum 13 mm (1/2") end and side laps.
- b. Furring crimps shall occur at maximum 152 mm (6") intervals each way. Furring crimps shall provide a minimum 3.2 mm (1/8") clearance from the substrate after installation.

-OR

## 2. Metal lath

- a. The metal lath shall be applied with minimum 13 mm (1/2") side and end laps.
- b. When end laps occur between supports, lace or wire ties the ends of the sheets with 1.2 mm (0.0475") galvanized annealed steel wire.
- c. Refer to ASTM C1063 for additional information.
- d. Corrosion-resistant fasteners for lath attachment shall penetrate a minimum of 25 mm (1") into wood framing.
- e. Apply the Ultrakote 1 System over steel framing minimum No. 20 gauge, 0.912 mm (0.0359") thick. Lath is secured to framing using No. 8-18, S-12, pan head, galvanized or non-corrosion resistant self-tapping screws spaced a maximum of 152.4 mm (6 inches) vertical on center to studs.

## E. Trim junction

## 1. When two pieces of trim abut:

- a. Set intersection of trim in a minimum 100 mm (4") bed of trim sealant approved by Ultrakote Products
- b. Allow 3-5 mm (1/8"-3/16") gap between the abutting trim pieces. Do not overlap trim.
- c. Attach the trim in accordance with manufacturer's specifications. True expansion joints must be fastened to the structural substrate.

## 2. When two or more pieces of trim intersect:

- a. The vertical trim piece shall be continuous with all horizontal pieces.
- b. Miter all corners at intersections of trim.
- c. Set intersections of trim in a minimum 100 mm (4") bed of trim sealant approved by Ultrakote Products.
- d. Allow 3-5 mm (1/8"-3/16") gap between the intersecting trim pieces. Do not overlap the trim.
- e. Attach the trim in accordance with manufacturer's specifications. True expansion joints must be fastened to the structural substrate.

NOTE: Control joints are required at a minimum of every 13.4m<sup>2</sup> (144 ft<sup>2</sup>) and as specified by the design professional. The maximum uncontrolled length or width is 5.5 lineal meters (18 lineal ft) and a maximum uncontrolled length to ratio of 2 1/2 / 1.

## 3. Ultrakote base coat:

- a. Total thickness of base coats must meet code requirements for fire rated construction.
- b. The nominal plaster base coat thickness is 3/8" to 1/2".
- c. Apply cement plaster with sufficient force to develop full adhesion between plaster and substrate.

- d. Apply the base coat to completely embed lath or wire and to completely fill the thickness of the casing, screeds or expansion/control joint.
- e. It is acceptable to use the double back method of application, whereby the first pass of base coat covers the lath or wire and the second pass of base coat fills in the casing, screed or control/expansion joints.
- f. Once the base coat has been applied to the required thickness, a rod should be used to level the base coat with screeds, to provide a true, flat plane. Follow this by wood floating or darbying the surface. Fill all the voids and dress surface for the finish coat.
- g. Damp cure for at least 48 hours by lightly and evenly fogging the surface with water at least twice a day. Direct sunlight, hot temperatures, low humidity and wind may make additional fogging necessary.
- h. Allow the Ultrakote 1 base coat to cure a minimum of 6 days prior to application of EPS insulation board shapes or primer and finish.
- i. Adhesively attach EPS insulation board shapes over cured stucco using Ultrakote adhesive base coat and ensure EPS is completely encapsulated in base coat and reinforcing mesh. Mesh must be completely embedded in wet base coat so that no mesh color is visible. Reinforcing mesh should be adhered to the back of the EPS foam shapes and finished around the shapes so the adhesive base coat termination is not over the stucco base coat. See Ultrakote System Typical Details.
- j. Ultraprime: Apply Ultraprime to the Ultrakote 1 base coat with a sprayer, 10 mm (3/8") nap roller, or good-quality latex paint brush at a rate approximately 4.3-6.7 m<sup>2</sup> per liter (175-275 ft<sup>2</sup> per gallon).
- k. Ultraprime shall be dry to the touch before proceeding to the Ultrakote finish coat application.

F. Ultrakote 1 finish coat includes but not limited to Ultra-flex and Duratex, in textures of fine, medium, medium swirl and coarse.

- a. Apply finish directly to the Ultrakote 1 stucco base with a clean stainless steel trowel.
- b. Apply and level finish during same operation to minimum obtainable thickness consistent with uniform coverage.
- c. Maintain a wet edge on finish by applying and texturing continually over the wall surface.
- d. Work finishes to corners, joints or natural breaks and do not allow material to set up within an uninter-rumped wall area.
- e. Float finish to achieve final texture.

### **3.04 CLEANING**

- A. Clean material from adjacent surfaces as recommended by manufacturer.
- B. Remove surplus material and debris, including field sample from site.

### **3.05 PROTECTION**

- A. Protect base coat from rain, snow and frost for 48-72 hours following application.
- B. Protect all dissimilar materials from both the stucco base coat and adhesive base coat.

End of Specification