

Section 072400 Ultrakote Cement Board System Specification

Part 1 GENERAL

1.01 GENERAL

- A. The Ultrakote Cement Board System use a non-structural cavity wall design and is intended for use on 1-3 story single, multi-family residential construction or light commercial construction.
- B. Cement Board Systems may replace many Exterior Insulation and Finish Systems (EIFS) where the insulation or system design is not desirable.

1.02 SCOPE OF WORK

- A. Provide all materials, labor and equipment to install the Ultrakote Cement Board System.

- B. Related sections:

1. Section 03300 Concrete
2. Section 04200 Unit Masonry
3. Section 05400 Gauge steel framing
4. Section 06100 Sheathing
5. Section 07620 Sheet metal flashing and trim
6. Section 07900 Sealants
7. Section 08000 Doors and windows

1.03 REFERENCE DOCUMENTS

- A. ASTM Standards

1. ASTM B-117 (Federal Test Standard 141 A Method 6061) Salt Spray Fog Test Method
2. ASTM C-79 Test Method for Gypsum Sheathing
3. ASTM C-150 Specification for Portland Cement
4. ASTM C-578 Specification for Preformed Cellular Polystyrene Thermal Insulation
5. ASTM C-1177 Specification for Glass Mat Gypsum Substrate for Use as Sheathing
6. ASTM D-2247 (Federal Test Standard 141A Method 6201) Method of Testing Metal Specimens at 100 Percent Relative Humidity
7. ASTM E-72 Transverse Load Test Method
8. ASTM E-84 Test Method of Surface Burning Characteristics of Building Materials
9. ASTM E-96 Test Method for Water Vapor Transmission of Materials

- B. EIMA Standards and Documents

1. EIMA 101.86 Standard Test Method for Resistance of Exterior Insulation and Finish Systems (EIFS), Class PB to the effects of Rapid Deformation (Impact)
2. EIMA 105.01 Standard Test Method for Alkali Resistance of Glass Fiber Reinforcing Mesh for use in Exterior Insulation and Finish Systems (EIFS), Class PB
3. EIMA Guide for use of Sealants with Exterior Insulation and Finish Systems (EIFS), Class PB
4. EIMA Guideline Specification for Exterior Insulation and Finish Systems (EIFS), Class PB
5. EIMA Guideline Specification for Expanded Polystyrene (EPS) Insulation Board
6. EIMA Drainage & Drying Test Method

- C. Building Code Standards

1. Section 1406.0 Current National Building Code, Building Officials and Code Administrators International (BOCA)
2. Section 717.4 and 717.5 Current Standard Building Code, Southern Building Code Congress International (SBCCI)
3. UBC Standard 26-4 (formerly UBC 17-6), Current Uniform Building Code, International Conference of Building Officials (ICBO)

D. Other Test Methods and Reference Documents

1. BOCA Radiant Panel Test Method for Ignitibility Characteristics of Exterior Wall Systems
2. ICBO Freeze Thaw Test Method
3. BOCA revised version of ASTM E-331 for EIFS

1.04 TERMS/DEFINITIONS

- A. Applicator - The contractor that applies the Cement Board Systems.
- B. Base Coat - The material applied to the face of the sheathing and reinforced with one or more layers of mesh to function as the exterior weather barrier.
- C. Base Coat Mixture - A field mixed blend of base coat and Portland Cement.
- D. Building Expansion Joint - A joint through the entire building structure designed to accommodate structural movement.
- E. Control Joint - A trim piece designed to control the thermal/structural movement within the cement board and to minimize cracking.
- F. Designer - The person or firm that is responsible to create the plans and specifications for the entire project.
- G. Expansion Joint - A designed joint in the continuity of a material, assembly or system designed to accommodate movement.
- H. Finish Coat - An acrylic based, factory mixed decorative and protective coating that is applied to the base of the Cement Board System, treated for compatibility with other materials of the system, which functions to strengthen the system and adds impact resistance.
- I. Reinforcing Mesh - Balanced, open weave, basic glass fiber mesh(es) supplied by the manufacturer of the Cement Board System, treated for compatibility with other materials of the system, which functions to strengthen the system and adds impact resistance.
- J. Mechanical Fastener - Rust resistant fasteners utilized to fasten the sheathing.
- K. Sheathing - A primary material to which the stucco cement board is attached to or through.
- L. Cement Board - An approved cement board meeting ASTM C-1 325. Substrate - The fully attached Stucco Cement Board that Ultrakote materials are applied.

1.05 QUALITY ASSURANCE**A. Design and Detailing****1. General**

- a. Ultrakote current published details, specifications, product information guides and other literature/information are minimum standards and guidelines that shall be followed when designing and detailing a project with the Ultrakote Cement Board System. Use is limited to 1 to 3 stories of residential and low-rise applications only.
- b. Details shall conform to Ultrakote details and shall be consistent with the project requirements.
- c. Sheathing is required for conditioned northern climates and where necessary for structural concerns in all climates. Non-conditioned northern climates (above the 4000 heating degree day line) and southern climates may not require sheathing. Designer to determine the necessity and use of the sheathing.
- d. Cracking due to dimensional stress at board joints may appear in the finished exterior surface.
- e. Planar irregularities in framing may be more visible than with other applications.
- f. Cement board manufacturer should be consulted for structural requirements.
- g. Secondary weather-resistive barrier is required under the cement board.
- h. Depending upon framing and climate, some read-through of framing and/or fasteners may occur.
- i. Applications are limited to residential and low-rise commercial installations.
- j. Ultrakote must approve deviations from the standard published details in writing.
- k. The architect, engineer or the designer of the project should determine where the dew point would occur in relationship to the wall assembly and the project location during summer and winter conditions.

- l. Proper fastener spacing of the approved sheathing shall be strictly adhere to. Reference sheathing manufacturer and local code recommendations for proper fastener spacing.
- m. When the outside temperatures differ considerably from the building's interior temperature, airborne dirt can accumulate on colder regions of walls causing "shadowing" or "spotting" particularly over fasteners and framing. This is not considered a failure of the system or the Ultrakote materials.
- n. The minimum slope of inclined surfaces shall not be less than 6" in 12" with a maximum length of 12" unless approved in writing by Ultrakote Llc. Inclined surfaces that are or could be defined as roofs by the building codes or application are not approved by Ultrakote Products Llc.
- o. The Cement Board Coatings shall not be used on parapet caps.
- p. It is the responsibility of the architect and the purchaser to determine if a product is suitable for their intended use. The architect or designer of the project shall be responsible for all decisions pertaining to the design, details, structural capability, attachment details, shop drawings and the like. Ultrakote Products Llc. has prepared specifications, details and data sheets to assist as guidelines for the use and installation of the products. Ultrakote Products Llc. is not responsible for the design, details, structural capability, attachment details and shop drawings whether it is based on Ultrakote's information or not.

2. Weather Resistive Barrier

- a. Code approved weather resistive barrier (i.e. Southern Building Code: minimum one layer type 15 felt or equivalent) shall be installed over framing on all exterior walls before application of system begins.
- b. Do not use a vapor barrier (i.e. plastic sheet) on the exterior wall behind the exterior sheathing.
- c. Weather resistive barrier shall be installed horizontally with upper layers overlapping lower layers a minimum of 2". Vertical joints shall overlap a minimum of 6".
- d. Wrap weather resistive barrier into rough openings at windows, doors, mechanical equipment and any other openings through the system. Reference Ultrakote's details.
- e. Lap weather resistive barrier over attachment flange of drainage track a minimum of 2".

3. Sheathing & Stucco Cement Board

- a. The maximum deflection under full flexural design loads of the substrate system shall not exceed $L/240$.
- b. Acceptable sheathings for the Cement Board Coatings shall be designed for their intended use by the design professional.
- c. Since the surface of the sheathing and stucco cement board cannot be rasped smooth, the flatness and finished appearance of the Cement Board Coatings application will depend on the structural members that support the sheathing.
- d. The design professional or engineer shall engineer the framing, sheathing and stucco cement board with regard to the required structural performance.

4. Expansion Joints

- a. Expansion joints in the system are required at building expansion joint, at prefabricated panel joints, where substrates change, at floor lines in wood framed construction and where structural movement is anticipated. Reference construction documents for specific locations.
- b. Double studs may be required to accommodate expansion joints or where it is needed to provide a fastening base for sheathing and stucco cement board joints.

5. Control Joints

a. Control joints are required and located by the designer in the stucco cement board at the following locations: (Reference construction documents for specific locations).

- 1) Shall not exceed 20 lineal feet in any direction.
- 2) 160 sq ft equals maximum overall area.
- 3) One dimension shall not exceed 2 1/2 times the other dimension.
- 4) At all dissimilar substrate transitions.

b. Double studs may be required to accommodate control joints or where it is needed to provide a fastening base for sheathing board joints.

6. Sealants

a. Sealants and backer rod, as required at expansion joints and dissimilar substrates, shall provide a complete watertight system.

b. The sealants in a Cement Board Coatings expansion joint or any sealant joint that anticipates significant movement, shall be bonded to the casing bead, stucco cement board or the reinforced base coat, not the finish coat. The color of the mesh shall not be visible and the texture of the mesh shall not be exposed within base coat at these locations.

7. Flashings

a. Roof

- 1) Crickets and step flashing shall be properly installed around chimneys.
- 2) Flashing shall be installed at rooflines in a manner to prevent any intrusion or water behind the weather barrier. This shall include the use of roof kick-out flashing at roof terminations.

b. Openings

- 1) Heads, jambs and sills of all rough openings must be wrapped with the weather resistive barrier prior to installation of windows, doors or mechanical equipment.
- 2) Local building codes may require use of self-sealing flashing tape on the sills.
- 3) Drainage track and metal flashing shall be installed at heads of openings.
- 4) Continuous metal flashing shall be installed at heads of ganged windows.

c. Decks

- 1) The system must be terminated at least 2" above poured decks, patios, sidewalks, etc.
- 2) Wooden decks must be flashed before system is installed.

8. Penetrations

a. All penetrations through the system such as hose bibs, dryer vents, lighting fixtures, air conditioning hoses, etc. must be properly sealed to insure the integrity of the system.

B. Qualifications

1. The Coatings Manufacturer shall have manufactured similar products and formulations in the United States for at least 10 years.

2. The Applicator shall be knowledgeable in the proper installation of the Cement Board Coatings.

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 job site to install the system in compliance with project plans and specifications.

5. The Fibered Cement Board Manufacturer shall be approved by Ultrakote Products Llc.

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

7. Prior to the installation of the Ultrakote Cement Board System, erect sample wall mock-up 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. 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 Cement Board Coatings.
- C. The Applicator shall submit Cement Board Coatings Manufacturer's current literature, brochures, specifications and details.
- D. The Applicator shall submit sufficient 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 job site mock-up samples.
- E. The Applicator shall provide any shop drawings that may be applicable to the project for approval by the project architect.

1.07 DELIVERY, STORAGE AND HANDLING

- A. Deliver all materials in original unopened packages with labels intact. Verify all quantities, colors and textures against bill of lading.
- B. Store all materials protected from direct exposure to weather conditions and at temperatures not less than 40 °F (4 °C) or greater than 110 °F (43 °C).
- C. Material safety data sheets (MSDS) shall be supplied for the components of the Cement Board Coatings and be available at job site.

1.08 JOB CONDITIONS

- A. Ambient air temperature shall be 40 °F (4 °C) or greater and rising at the time of installation of the Ultrakote Llc. Products and shall remain at 40 °F (4 °C) or greater for at least 24 hours after application.
- B. Provide supplemental heat and protection 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 Products Llc. materials.
- D. Adjacent materials and the Cement Board Coatings shall be protected during installation and while curing from weather and shall be protected from site damage.
- E. Coordinate installation of the Ultrakote Cement Board System with related work specified in other sections to ensure that the wall assembly is protected to prevent water from getting behind the weather barrier. The cap flashing shall be installed as soon as possible after the finish coat has been applied. 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, texture variations, etc.

1.09 REPAIR AND MAINTENANCE

A. Refer to Ultrakote Products Llc. specific repair and maintenance procedures.

B. Sealants and flashings shall be inspected annually to verify that the products are not allowing water intrusion behind the weather barrier. If sealant and/or flashings are allowing water intrusion behind the weather barriers, repairs should be made immediately.

1.10 LIMITED MATERIALS WARRANTY

A. A Limited Materials Warranty shall be issued upon the receipt of a properly completed warranty request form. Cement Board Stucco System over sheathing applications, 10 years. Other applications, 5 years.

Part 2 PRODUCTS**2.01 GENERAL**

A. All components of the Ultrakote Cement Board System shall be obtained from Ultrakote Products Llc. or its authorized distributors. No substitutions of, or additions of, other materials shall be submitted without prior written permission from Ultrakote Products Llc. Substitutions or additions will void the warranty.

2.02 MATERIALS

A. Weather Resistive Barriers (by others)

1. The weather resistive barrier shall comply with local building code requirements. Shall be a minimum 15 # felt or a product recognized by the local jurisdictional building authority as a weather resistive barrier equivalent.

B. Vinyl Trim

1. Drainage track properly sized to the Stucco Cement Board and manufactured by Vinyl Corp., Plastic Components or approved equal shall be used, if needed, in accordance with Ultrakote Products Llc. details.
2. Casing Bead properly sized to the Stucco Cement Board and manufactured by Vinyl Corp., Plastic Components, or approved equal shall be used, if needed, in accordance with Ultrakote Products Llc. details.

C. Mechanical Fasteners

1. A rust resistant fastener approved by the Stucco Cement Board manufacturer shall be used to properly fasten the sheathing. The appropriate fastener shall be used to meet the requirements of the specific project, local building code and the anticipated wind loads.

D. Sheathing & Cement Board Stucco

1. Sheathing: Applied over framing and may be designed to satisfy structural requirements or fire-resistive construction. Exterior gypsum sheathing (ASTM C-79, Dens Glass Gold, Exposure 1 or exterior plywood (grade C-D or better), Exposure 1 Oriented Strand Board (OSB).
2. Stucco Cement Board: Cement panels meeting ASTM C-1325. National Gypsum PermaBase (1/2" min.), USG Durock (1/2" min.), James Hardie Hardiepanel Smooth (5/16") or approved equal.

E. Reinforcing Mesh

1. Self Adhesive Mesh: Nominal 4.5 oz./sq. yd. open weave glass fiber fabric, treated for alkaline resistance and compatibility with Ultrakote Base Coat and conforming to ASTM D-76, D-579, D-5035 and MIL-Y-1140.
2. Standard Mesh: Nominal 4.5 oz./sq. yd. open weave glass fiber fabric, treated for alkaline resistance and compatibility with Ultrakote Base Coat and conforming to ASTM D-76, D-579, D-5035 and MIL-Y-1140.

F. Base Coats

1. Shurkote WB: An acrylic-based product mixed one-to-one by weight with Portland Cement designed for use with reinforcing mesh as the base coating over the approved sheathing board. It is recommended that a second base coat application be used to level out the irregularities of the Fibered Cement Board surfaces.
2. Shurkote DB: A polymer based cementitious product mixed with 5 to 6 quarts of water for use as a base coating over the Fibered Cement Board.

G. Water Resistive Moisture/air Barrier

1. Shurgard Ra: Is a liquid applied membrane designed to seal the fibered cement surface prior to the base coat and finish application.

H. Primer (Optional to enhance appearance and performance)

1. Ultraprime is manufactured by Ultrakote Products, LLC.

J. Special Shapes: Moldings, cornices, quoins, etc, manufactured by others or formed out of EPS Insulation Board must be encapsulated with Base Coat and Reinforcing Mesh.

K. Finish: Ultrakote's Finishes are acrylic-based wall coatings available in a variety of colors and textures. The following textures are available:

1. Swirl Texture - The traditional riled texture
2. Fine Texture - A very smooth sand texture
3. Medium Texture - A moderately thick sand finish
4. Coarse Texture - A very heavy coarse sand texture

L. Water: Shall be clear, clean and potable without any foreign matter in the solution that may affect the color and setting qualities of the cement, base or finish coat.

M. Cement: Type I or I-II Portland Cement meeting ASTM C-150.

N. Sealants Systems:

1. Sealants: Reference sealant section (07920) and manufacturer for approved sealants and installation methods.

Part 3 EXECUTION**3.01 INSPECTION**

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

3.02 MIXING

A. Shurkote WB: Mix at a weight ratio of 1 to 1 with portland type I or I/II, white or grey cement. Mix using a 1/2", 400-500 RPM drill motor and mixing paddle. Let stand for 3-5 minutes and remix until the desired consistency is achieved. Small amounts of clean water can be added for workability. Do not over mix.

B. Shurkote DB: Add 5 to 6 quarts of water with the 50 lb bag in a clean bucket for mixing. Mix with a mixing paddle and a 400-500 RPM drill motor. Let stand for 3-5 minutes and remix until the desired consistency is achieved. Small amounts of clean water can be added for workability. Do not over mix.

C. Ultrakote finishes: Mix the finish coat with a mixing paddle and a 1/2", 400-500 RPM drill motor. Small amounts of water, up to 16 oz (.43 l) can be added for workability. Mix until reaching a uniform consistency (it is important that the same amount of water be added to each pail to ensure a consistent color).

D. Additives shall not be added to Ultrakote-Shurkote's materials unless written approval has been received from Ultrakote Products Llc.

3.03 PREPARATION

A. Protect contiguous work from damage during application of the Ultrakote coatings. Temporary covering may be required to prevent overspray or splattering of exterior finish coatings on other work.

B. Protect substrate from inclement weather during installation. Prevent infiltration of moisture behind the system that may affect the substrate or the adhesion of the insulation board to the substrate.

C. Base Coats and Finishes shall not be installed when ambient air temperature is below 40°F (4°C). The temperature shall remain at or above 40°F (4°C) during mixing, application and until materials have cured.

D. Sufficient scaffolding, manpower and tools shall be provided to prevent cold joints.

E. Code approved weather resistive barrier (i.e., Southern Building Code; minimum one layer type 15 felt or equivalent) shall be installed over framing on all exterior walls before application of sheathing begins.

F. Flashings shall be installed as required by construction documents and Ultrakote's details in a manner to prevent the intrusion of water behind the weather resistive barrier. All flashing materials should direct the water to the exterior face of the weather resistive barrier.

3.04 INSTALLATION, GENERAL

A. Install the Stucco Cement Board according to the selected manufacturer's published instructions.

B. Comply with the manufacturers' current published instructions (specifications, details, data sheets and technical bulletins) for the installation of the Ultrakote Cement Board System.

C. Comply with local building codes.

3.05 INSTALLATION OF DRAINAGE TRACK

A. When required or specified by the design professional a drainage track should be installed as per the construction documents. Ultrakote's published details and must comply with local building codes.

B. Drainage track must be installed at all horizontal terminations of the system; such as heads of windows, doors and at base of the wall where system begins.

1. Strike a level line on the framing to correspond with the top of the nailing flange of drainage track.
2. Remember to keep the termination at the base of the wall at least 8" above finished grade.
3. Fasten drainage track with corrosion resistant fasteners of sufficient length to penetrate the wood studs at least 1" and the steel studs 3/8", spaced a minimum 16" o.c.
4. Butt ends of the starter track. Miter inside and outside corners.
5. Lap weather resistive barrier into drainage track.

3.06 INSTALLATION OF CASING BEAD

A. When required or specified by the design professional a casing bead shall be installed as per the construction documents. Ultrakote's published details and comply with local building codes.

B. Casing Bead shall be installed at all vertical terminations of the system; such as jambs of windows and doors.

1. Strike a plum line on the framing to correspond with the edge of the nailing flange of casing bead.
2. Remember to allow enough room for the installation of a proper sealant joint around openings.
3. Fasten casing bead with corrosion resistant fasteners of sufficient length to penetrate the wood studs at least 1", and the steel studs 3/8", spaced a minimum 16" o.c.
4. Butt ends of the casing beads.
5. Lap weather resistive barrier onto the nailing flange of the casing bead.

3.07 CEMENT BOARD APPLICATION

A. Mechanical Fasteners

1. A rust resistant fastener approved by the sheathing manufacturer shall be used to properly fasten the Fibered Cement Board. Appropriate fastener shall be used to meet the requirements of the specific project, local building code and the anticipated wind loads.

B. Installation

1. Approved substrates/sheathings for application:
 - a) PermaBase
 - b) Durock
 - c) Or approved equal

2. Make sure weather resistive barrier is lapped over and into the drainage track and onto the flange of the casing bead.
3. Attach sheathing using appropriate fastener.
4. The requirements of the geographical conditions of the area, local code requirements and the performance of the fasteners and their test results in conjunction with the specified substrate and the thickness of sheathing specified for use shall determine the fastening patterns.
5. Install fasteners so that the face of the fastener head is flush or slightly recessed into the surface of the sheathing board.
6. The application of the sheathing board shall commence at the base of the wall in the drainage track from a level line of support.
7. Cement Board shall be installed so that the vertical joints are staggered.
8. Cement Board joints shall be offset from the corners of openings.
9. Allow for proper spacing at windows, doors, penetrations and other openings so that sealant systems can be installed in accordance with Ultrakote's specification, details and the construction documents.
10. Provide a proper joint through sheathing board where building expansion joints are detailed and where required in the system.
11. Double studs are required if needed to accommodate control joints, expansion joints or where it is needed to provide a fastening base for sheathing board joints.
12. The sheathing board shall be butted tightly.

3.08 CONTROL JOINTS

A. Mechanically attach the control joints in accordance with construction documents, the recommendations of the manufacturer of the control joint and Ultrakote's specifications and details.

B. Fasten control joint with corrosion resistant fasteners of sufficient length to penetrate the wood studs at least 1" and the steel studs 3/8", spaced a minimum 16" o.c.

3.09 BASE COAT PREPARATION

A. Inspect Stucco Cement Board to ensure the installation meets the requirements set forth in the sheathing manufacturer's installation instructions, Ultrakote's specification, details, data sheets, technical bulletins and the construction documents. Make necessary repairs to ensure the installation meets the requirements prior to commencement of the base coat application.

B. Install minimum 9 1/2" x 12" diagonal reinforcement at all windows, doors, louvers or other penetration corners. Apply field mesh as soon as possible after diagonal mesh application.

3.10 SELF ADHESIVE MESH APPLICATION

A. Center the Self-Adhesive Mesh over all Stucco Cement Board joints, inside and outside corners and all breaks in the board.

B. Immediately apply base coat to the Self-Adhesive Mesh and taper the base coat to a featheredge. Alternatively, embed a 4" strip of Standard mesh into wet base coat.

C. Allow the base coat to cure a minimum of 12 hours prior to additional base coat or finish coat applications.

3.11 BASE COAT APPLICATION

A. Apply the base coat to the entire surface of the sheathing board to the thickness required for the specified reinforcing mesh to be applied in a given area.

1. Standard, Detail and Hi-Impact Mesh requires a nominal 1/16" (1.6 mm).

B. Immediately embed Ultrakote reinforcing mesh into wet base coat with a trowel, working from the center toward the edges, until the mesh is fully covered and a smooth surface is achieved. The color of the mesh shall not be visible but a slight mesh pattern may be visible.

C. Lap mesh 2 1/2" (64 mm) minimum on all sides.

D. A minimum of standard reinforcing mesh shall be installed on the entire surface to assure an acceptable flat finish appearance. Meshing board joints only may result in an unacceptable finished appearance under varied angles of lighting.

E. Reinforcing Mesh shall be continuous through all interior and exterior corners extending beyond the corner a minimum of 12" from both directions creating a minimum of two layers of standard reinforcing mesh on all interior and exterior corners.

F. Reinforced base coat shall be installed over perforated accessory flanges (i.e. casing beads and corner beads).

G. Insulation Board or special shapes applied over the Cement Board shall have reinforcing mesh embedded into the base coat.

H. Primer or sealer shall not be substituted for base coat.

I. Allow the base coat to cure a minimum of 12 hours prior to additional base coat or finish coat applications.

3.12 ULTRAKOTE FINISH COAT APPLICATION

A. Surface irregularities in the base coat, such as trowel marks, sheathing board lines and reinforcing mesh laps shall be corrected prior to the finish application.

B. Apply the Ultrakote Finish in the color and texture as approved by the project owner or the project architect with sufficient manpower and equipment to insure a continuous operation without cold joints, scaffolding lines, etc. Texture finish shall match approved jobsite samples. Thickness and coverage will vary depending on the specified final appearance.

C. Trowel Application

- 1) Apply Ultrakote Finish to the clean, dry and cured base coat with a stainless steel trowel.
- 2) Level the surface to a uniform thickness of 3/32" to 1/8".
- 3) Float the Finish with a plastic float in a uniform motion to achieve the desired texture. (Refinish cannot be floated)

D. Spray Application

- 1) Prime surface with Ultrakote UltraPrime tinted to match the selected finish color. Allow UltraPrime to cure a minimum of 12 hours prior to finish coat application.
- 2) Using a conventional plaster hopper gun or a proven pump, spray finish over the primed base coat to achieve desired texture using a circular overlapping pattern keeping the spray gun at a 90 degree angle to the surface and maintaining the same distance to the wall at all times.
- 3) Be cautious of flooding an area with too much finish because it may appear shinier when it dries.

E. Provide protection from rain and temperatures below 40 °F (4 °C) for a minimum of 24 hours after application. Longer protection may be necessary during lower temperatures and/or higher humidity conditions.

3.13 JOBSITE CLEANUP

A. Clean work area in accordance with contract documents removing all excess materials, droppings and debris. Clean adjacent surfaces.