



## SHORT FORM SPECIFICATION

### CREATIVE MINES – CRAFT BOARD FORM™ & RECTANGLE VENEERS

#### SPECIFICATION

This specification applies to the installation of Creative Mines **Craft Board Form & Rectangle** Masonry Veneers on interior and exterior walls.

**NOTES TO SPECIFIER:** Detail and specify LATICRETE® Air & Water Barrier in all wet areas and exterior areas, and over existing, non-structural, hairline cracks ( $\leq 1/8"$  or 3mm) in the substrate. A LATICRETE "System" approach to installation is covered by a comprehensive 25 year warranty (Reference LATICRETE DS 025.0) for all interior installations, as well as exterior installations over non-framed wall construction. A 15 year warranty (Reference LATICRETE DS 230.15) applies to all exterior applications over steel & wood framed walls.

#### MATERIALS:

- A. **Board Form & Rectangle Thin Veneers:** Masonry veneers produced by Creative Mines™ [www.creativemines.us](http://www.creativemines.us)
- B. **Thick Bed Mortar (for smoothing rough/uneven substrates and/or use w/ Wire Lath):** MVIS™ Premium Mortar Bed - *ASTM C91 Standard Specification for Masonry Cement*
- C. **Waterproofing and Crack Suppression Membrane:** LATICRETE Air & Water Barrier - *ASTM E 2357: Standard Test Method for Determining Air Leakage of Air Barrier Assemblies. ICC – ES AC212: Acceptance Criteria for Resistive Coatings as Water Resistive Barrier over Exterior Sheathing. ICC – ED AC38: Acceptance Criteria for Water-Resistive Barriers. Total VOC content pounds/gallon (grams/liter) of product in unused form is 0.02lb/gal (2.39 g/l).*
- D. **Epoxy-Based Waterproofing:** LATAPOXY® Waterproof Flashing Mortar - *Meets or exceeds all ANSI 118.10*
- E. **Masonry Mortar:** MVIS Hi-Bond Veneer Mortar - *Exceeds or equals ASTM C270, ASTM C482. ANSI A118.4, ANSI 118.11, ANSI A118.15, ISO 13007-1*
- F. **Pointing Mortar:** MVIS Pointing Mortar - *ASTM C91 Standard Specification for Masonry Cement*
- G. **100% Silicone Caulk:** MVIS Silicone Sealant - *Adhesion performance ASTM C794. Conforms to ASTM C920 Sealant classification.*

Masonry veneer installation materials to be supplied solely by LATICRETE International, Inc.; Bethany, CT; USA Telephone: 1 (203) 393-0010; Fax: 1 (203) 393-1684; E-mail: [technicalservices@laticrete.com](mailto:technicalservices@laticrete.com); Web: [www.laticrete.com](http://www.laticrete.com).

#### PREPARATIONS

Prior to commencing the installation, the contractor must examine substrates and advise the General Contractor and Architect of any existing conditions or surface contamination which will require correction before the work commences. Before starting, substrates must be cleaned to remove curing compounds, sealers, soil, mortar, dirt, dust, etc. Curing compounds or sealers must be removed by bead-blasting, grit / sand blasting, hydro blasting, diamond wheel grinding with dustless vacuum attachment, or equivalent methods of mechanical scarifying. After removal of the curing compounds and sealers, all rough, uneven or "out-of-plumb" surfaces must be made "plumb and true" to within 1/4" in 10' (6 mm in 3 m) using MVIS Premium Mortar Bed. Dry or dusty concrete or masonry surfaces must be water washed and excess water removed just prior to the application of LATICRETE membranes and mortars.

#### Note:

If installing on sheathed wood/steel frame construction with wire lath, use MVIS Premium Mortar Bed for the wall render prior to installing LATICRETE Air & Water Barrier and/or MVIS Hi-Bond Veneer Mortar.

#### EXPANSION AND CONTROL JOINTS

Existing joints in substrate must be carried through the masonry veneer work and must conform to architectural details. Expansion joints must be installed where bricks abut restraining surfaces, such as perimeter walls, curbs, columns, corners, etc. Expansion joints

must be installed at all "changes of plane" in the brick work. Refer to Tile Council of North America (TCNA) Detail EJ-171 (Current Year) for industry recommendations. Use MVIS Silicone Sealant for all such joints.

## **INSTALLATION OF WATERPROOFING AND CRACK SUPPRESSION MEMBRANE**

Install LATICRETE Air & Water Barrier membrane in all wet areas and exterior areas prior to installing masonry veneer. Use LATICRETE Air & Water Barrier as the anti-fracture membrane over all hairline cracks ( $\leq 1/8"$  or 3mm) in surfaces, prior to installing masonry veneer. Refer to LATICRETE data sheets 661.0 and 661.5 for complete installation instructions. Use LATAPOXY® Waterproof Flashing Mortar to waterproof seams, gaps or joints adjacent to metal and PVC pipe penetrations and flashings. Refer to LATICRETE data sheet 070.0 for complete installation instructions.

## **MIXING**

Mix according to printed product instructions included with each LATICRETE product package.

## **INSTALLATION OF MASONRY VENEERS**

Apply MVIS Hi-Bond Veneer Mortar to the substrate with scraping motion, using the flat side of a notched trowel. Work the mortar into good contact with the substrate. A trowel with notches large enough to ensure full mortar coverage to the backs of the masonry veneer is required. Using the notched side, trowel MVIS Hi-Bond Veneer Mortar in one direction. Back-butter each stone veneer piece with a thin layer of mortar. Firmly press masonry veneer pieces into the freshly applied MVIS Hi-Bond Veneer Mortar and move them perpendicularly across the ridges to flatten and compress the ridges. This helps to produce maximum coverage to the backs of the stone. Do not apply more Veneer Mortar than can be covered while the mortar is still wet and tacky. Periodically, remove and check masonry veneer pieces to verify full mortar coverage is being achieved. Allow masonry veneer installations to set for 12 to 24 hours at 70° F (21° C) prior to pointing joints between pieces. Excess veneer mortar must be cleaned from the surface of the stone veneer with a clean, wet cloth or sponge, while it is still fresh. Stone veneer must be supported until MVIS Hi-Bond Veneer Mortar has set firm; typically, 12 to 24 hours at 70° F (21° C).

## **GROUTING / POINTING**

For installations requiring pointing mortar between the pieces of masonry veneer, use MVIS Pointing Mortar after allowing the installation to cure for 12 to 24 hours at 70 degrees F (21 degrees C). Prior to pointing, apply a grout release or sealer to the faces of the masonry veneer, if necessary. Remove all spacers and debris in joints as well as dust and dirt using a damp sponge. Dampen stone surface with water. Use either a trowel and tuck pointing tool or a mortar bag to place MVIS Pointing Mortar. Allow pointing mortar to firm to "thumbprint" hardness. Trowel, rake and/or brush to the desired finish.

## **PROTECTION**

The contractor must take precautions to protect the finished work from damage by other trades. Protect exterior veneer installations from exposure to rain for a minimum of 7 days at 70° F (21° C).

## **COLD WEATHER NOTE**

The curing of installation materials is retarded by low temperatures and finished work should be protected for an extended period of time. Typically, for every 18° F below 70° F (10°C below 21°C), installation materials take twice as long to cure.

LATICRETE Technical Services provides review of job specifications and plans, project detail planning and review, and provides answers to questions concerning the installation of ceramic tile, brick, marble and stone. Call toll free USA +1 (203) 393-0010. Fax: USA +1 (203) 393-1684. E-mail: [technicalservices@laticrete.com](mailto:technicalservices@laticrete.com), Internet: [www.laticrete.com](http://www.laticrete.com). To obtain a copy of detailed product information, most recent revisions of LATICRETE data sheets, and answers to installation questions, E-mail: [technicalservices@laticrete.com](mailto:technicalservices@laticrete.com) or call (800) 243-4788 x.235.

©2014 LATICRETE International, Inc., all rights reserved



LATICRETE INTERNATIONAL, INC. • 1 LATICRETE Park North • Bethany, CT 06524-3423 USA  
800.243.4788 • [support@laticrete.com](mailto:support@laticrete.com) • [www.laticrete.com](http://www.laticrete.com)

LATICRETE INTERNATIONAL, INC. All trademarks shown are the intellectual property of their respective owners.



## SHORT FORM SPECIFICATION

### CREATIVE MINES – CRAFT BOARD FORM™ & RECTANGLE VENEERS

#### Part I - General

**1.1 - Waterproofing** - Masonry Veneers, bonding and grouting mortars are not substitutes for a waterproofing system. See appropriate section for waterproofing.

#### Part II - Products

**2.1 Veneer** - Shall be Creative Mines – Board Form and/or Rectangle precast concrete panels. Creative Mines P.O. Box 162, Malad City, ID 83252 [www.creativemines.us](http://www.creativemines.us) Technical Support: 800.453.7040

#### **2.2 Bonding Mortar-**

- A. Thin Bed Bonding Mortar (<1/2") - Shall be VBM Bonder Polymer modified thinset meeting ANSI - 118.4 Shear Bond Properties (>300 psi) and water absorption of less than 6%. Color shall be \_\_\_\_\_ (Manufactured by Orco Blended Products Highland, CA 909-862-2480)
- B. Thick Bed Bonding Mortar (>3/8") - Shall be Poly VBM 500 - polymer modified Type S bonding mortar meeting the property specifications of A.S.T.M. C 270 and ANSI 118.4 - Shear bond properties (>300 psi). Water absorption less than 6%. Color shall be \_\_\_\_\_ Manufactured by Orco Blended Products, Highland, CA 909-862-2480.

#### Part III - Execution

#### **3.1 Quality Control**

- A. Prior to commencing work, the installer shall inspect the substrate and conditions of installation and advise the general contractor and Architect of any conditions that need correction prior to installation of veneer.
- B. Install a test panel using specified materials and installation methods to assure successful application.
- C. During installation, periodically remove freshly set veneers to assure bonding mortar is bonding to the substrate and veneer.
- D. Follow A.S.T.M. - ANSI guidelines for installation in extreme heat, cold or extreme windy conditions.
- E. Protect installed veneers from vibration or damage from other trades.

### **3.2 Substrate**

- A. Substrate shall be structurally sound and conform to good engineering design.
- B. Shall have a maximum deflection for thin bed installation of L/360 and L/460 for thick bed installation.
- C. All expansion control joints and movement joints shall be brought through the veneer to the surface.
- D. Expansion joints shall be installed at perimeter walls, columns, corners, changes of plane etc.
- E. Substrate shall be plumb and level within 1/8" in 10 feet.

### **4.1 - Installation**

- A. Substrate preparation - All surfaces to receive bonding mortar shall be clean, free of any dirt, loose debris, paint, oil curing agents, release agents, bond breakers or any contaminant which may hinder bond. Curing agents, release agents, sealers or other contaminant shall be removed by bead-blasting, sand blasting, grinding or similar removal techniques. Water blasting is not adequate for removal of these types of contaminants. Smooth surfaces must be roughened - sand paper consistency.
- B. Bonding Mortar - Mix the bonding mortar according to manufactures instructions. The bonding mortar shall be installed to the substrate using a notched trowel (1/4" x 1/4"). Mortar shall be applied to the surface with force-keying into the substrate (1/4" minimum) - 100% coverage. Mortar shall be applied to the veneer - w/force - keying into the surface - 100% coverage. While the mortar is still wet and tacky-place the veneer and beat into place. Assuring good contact - 100% coverage.
- C. Clean any excess bonding mortar from the veneer while still wet.

END OF SECTION

This short form specification was prepared specifically for Creative Mines, LLC. Comments or Suggestions for improvement should be addressed to: Creative Mines, LLC 732 N Coast Highway 101 Ste C, Encinitas, CA 92024