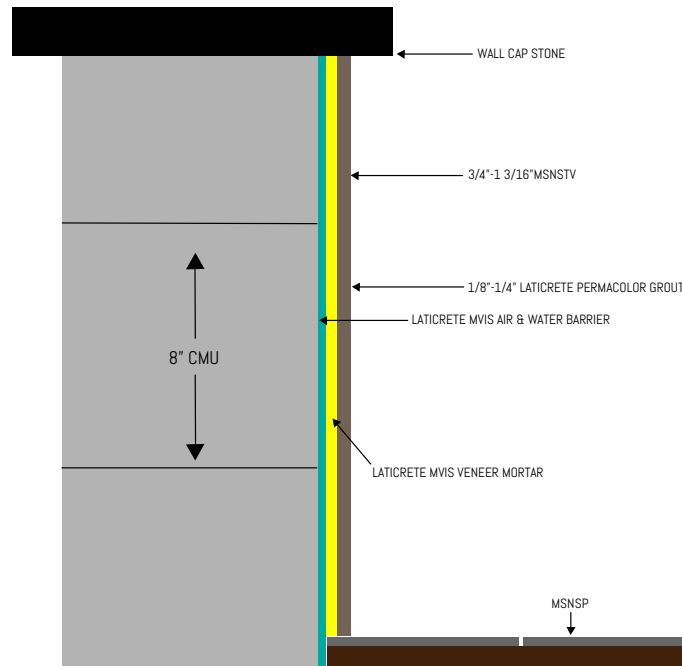



THIN VENEER WALL APPLICATION (CMU WALL)

MSNSTV – Marmiro Stones Natural Stone Thin Veneer





WARNING
Installation of material is sign of acceptance.
No returns on open crates, custom orders, & products with custom packaging.
These requirements align with NCMA/MVMA, the Natural Stone Institute, TMS 402/602, ICC-ES, and key ASTM/ANSI standards. Always follow local code and the project engineer's direction.
Epoxy mesh-backed stone is used to increase the strength of the stone for shipping. All epoxy mesh-backed veneer should be removed with a grinder before installation.
Laticrete® LATIPOXY® 300 Adhesive is required for long term adhesion of the stone without removal of epoxy meshed-back stone for installation on a concrete wall.

*MSNSTV - MARMIRO STONES NATURAL STONE THIN VENEER

CMU WALL

1) SUBSTRATE PREP

- Clean CMU's to free of bond-breakers; rake/flush joints. Skim/fill to plane where needed (e.g., render parge) to meet flatness, (industry's best practice).
- Optional WRB (water resistant barrier)/AWB (Air & Water Barrier) Or Laticrete® Hydro Ban® over CMU for additional water control. This is not a code substitute for framed WRB, but it is beneficial on exposed walls. Use Laticrete® MVIS™ Air & Water Barrier for best results.
- Optional Metal Lath
 - If using this metal lath method, please be sure to use galvanized metal lath using corrosive resistant anchors.
 - Apply a scratch coat over lath using Laticrete 3701 Fortified Mortar Bed.

*NOTE - On clean, sound concrete/CMU, Laticrete generally promotes direct-bond Laticrete® MVIS™ installations (no lath) with their mortars; lath/scratch is an alternative when the wall is contaminated or can't be adequately prepared. Use Laticrete® MVIS™ Lite Wall Float for the scratch coat.

2) SETTING MORTARS (SELECT PER SUBSTRATE/CONDITIONS)

- Apply One of the following mortars based on application.
 - Laticrete® MVIS™ Veneer Mortar (polymer-fortified, non-sag).
 - Laticrete® MVIS™ Hi-Bond Veneer Mortar (high-bond, exterior, long open time).
 - Laticrete® 254 PLATINUM™ (alternative for dense concrete/critical bonds).

3) SETTING THE STONE

- a. Use one of the following Laticrete® setting mortars (Mix with water only; follow data sheet specs):
 - MVIS™ Veneer Mortar (polymer-fortified, non-sag) or MVIS™ Hi-Bond Veneer Mortar for high-bond, exterior work.
 - For exceptionally dense/smooth concrete, 254 PLATINUM™ is an approved alternative. This should be used for all water applications.
 - Trowel a full bed and back-butter (skim coat) each unit to achieve 100% coverage and full contact with the structure. Beat in. (ASTM C1780).

4) EPOXY-BACKED STONE

Choose one of these options below:

- a. Laticrete® LATIPOXY® 300
 - Laticrete® LATIPOXY® 300 Adhesive is required for long term adhesion of stone to concrete wall.
 - Mixing: Pour LATIPOXY® 300 Adhesive Part A and Part B into a clean mixing pail and mix thoroughly. Add LATIPOXY® 300 Part C Filler Powder and mix to a smooth, trowelable consistency. Mortar is ready for use immediately after mixing.
 - Application: Apply mortar to the substrate with the flat side of the trowel, pressing firmly to work into surface. Comb on additional mortar with the notched side.
- b. Remove back mesh with a grinder.
 - Then proceed using one of the mortars listed in #3 above.

5) MORTAR JOINT OPTIONS

- a. Place MSNSTV (typical is 4" & 6" height material) with no mortar joint, creating a tight fit.
- b. MSNSTV 3"-6"-9" system is designed for a 3/8" grout joint.
 - Be sure to use spacers to maintain consistent joint spacing.
 - Before starting to grout, remove spacers and debris in grout joints and remove dust and dirt using a wet sponge. Do not leave water sitting in joints.
 - Mixing: Use approximately 2.4–2.6 quarts (2.3 L–2.5 L) of clean potable water for 25 lbs. (11.3 kg) of PERMACOLOR® Grout. Place water in a clean mixing container and add grout powder. Mix with a slow speed drill mixer (300 rpm) for one minute. Wait for five minutes and remix with drill for one minute.
 - Apply: Using a grout bag, apply grout to joints filing completely. Use a 3/8" flat slicker jointer or jointing tool to give a concave look.
 - Cleaning: Begin initial cleaning by lightly wiping down entire area to be cleaned with a damp sponge. Wash with a damp sponge (not wet). Work diagonally with the joints. Allow to dry three hours at 70°F, (warmer days will have a faster dry time). For second cleaning, use a damp sponge or dry cloth to remove remaining grout haze.

6) BEST PRACTICES

- a. Base clearances - Maintain clearances to shed water: Typically, 4" above earth, 2" above paved, ½" above walking surfaces, sharing the same foundation.
- b. Use MSNSTV: Pull from multiple crates for blending. Do not install saturated/frozen stone.
- c. Exterior installations should target essentially 100% contact with tight edges; avoid "center void doughnuts" aka: picture framing.
- d. Follow product temperature limits: Protect from freezing, rapid drying, or direct rain until cured.
- e. Use polymer-modified mortars for exterior wall applications.
- f. Do not bridge structural/expansion joints with mortar or stone; continue the joint through the veneer with backer-rod & sealant.
- g. Do not rely on a thin "dot and dab." Full coverage is required. Periodically pull a piece to check.
- h. Do not set in stone in freezing temperatures, on saturated substrates, or in driving rain—follow mortar product temperature/cure limits.