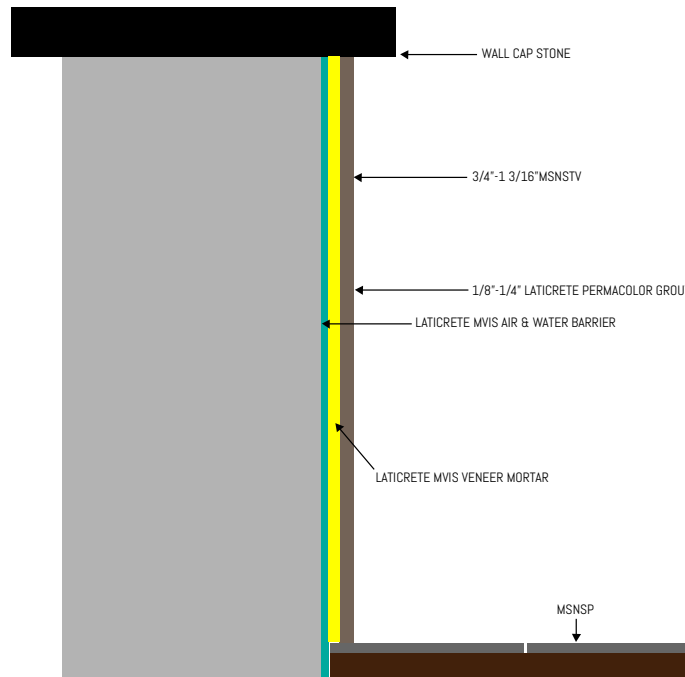


THIN VENEER WALL APPLICATION (CONCRETE CAST-IN PLACE WALL)

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

CONCRETE CAST-IN PLACE

1) SUBSTRATE PREP

- Concrete must be 28-day cured, sound, clean, and free of form oils/cures/paints. Mechanically abrade dense/steel-troweled or contaminated surfaces, (industry's best practice).
- Optional, but recommended for bulk-water and crack isolation: Apply Laticrete® MVIS™ Air & Water Barrier to the prepared concrete per Laticrete® DS 661.0; mesh/treat transitions.
- 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.

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

- Use one of the following Laticrete® setting mortars (mix with water only; follow DS 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 water applications.
 - ▶Trowel a full bed and back-butter each unit to achieve complete coverage; 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 with 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 filling completely. Use a 3/8" slicker trowel 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 toward 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".
- 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 stone in freezing temperatures, on saturated substrates, or in driving rain—follow mortar product temperature/cure limits.