



## Interior and Exterior Walls Slimline Stone Products Specification



**Globally Proven  
Construction Solutions**

### SCOPE OF WORK

Interior and Exterior Vertical installations of Slimline Stone Products

**Tiles:** Slimline Stone Products, as supplied by: [www.slimlinestone.com](http://www.slimlinestone.com)

**Epoxy Adhesive:** LATICRETE LATAPOXY® 300 Adhesive

**High Performance Cement Based Grout:** LATICRETE PERMACOLOR® Select Grout or LATICRETE PERMACOLOR®

Silicone Sealant-LATICRETE LATASIL

Installation materials to be supplied 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); Website: [www.laticrete.com](http://www.laticrete.com).

### NOTES TO SPECIFIER

These guidelines apply to basic installation methods and materials. For more complex installations, and installations requiring additional system components (e.g. moisture mitigation, self-leveling, uncoupling membranes, sound abatement, etc.), Detail and specify HYDRO BAN® in all wet areas, and over existing, non-structural, hairline cracks ( $\leq 1/8"$  or 3mm) in the substrate.

LATICRETE® Systems are covered by a comprehensive 25 year warranty (Reference LATICRETE DS 025.0 when installed over concrete & concrete masonry unit construction). Steel and wood-framed exterior façade installations, installed with LATICRETE Systems, are covered by a comprehensive 15 Year Warranty (LATICRETE DS 230.15). LATICRETE warranties and system recommendations do not supersede International Building Code (IBC) & International Residential Code (IRC) building code requirements. Building code waivers may need to be obtained for large format "adhered veneer" exterior façade installations where panel sizes:

1. Exceed 24 inches (600 mm) in any face dimension
2. Exceed 3 square feet (0.27 square meters) in total facial area, or
3. Are less than .25 inches (6 mm) thick

Consult with local building code / building code officials as required.

### PREPARATIONS

The contractor must examine all surfaces to receive the tilework and advise the General Contractor and Architect of existing conditions and surface contamination which will require correction before the work commences. Before starting, substrates must comply with maximum allowable deflection criteria as called for by International Building Code (IBC) or the applicable local building code.

Substrates are to be cleaned to remove paint, dirt, dust, and all other bond-inhibiting materials. Dry, dusty surfaces are to be wiped clean with a damp sponge and clean water, prior to the application of the adhesive.

**Epoxy Adhesive Method - LATAPOXY® 300 Adhesive:** Install epoxy adhesive in compliance with current revisions of ANSI A108.02 (3.14) , ANSI A108.6, and ANSI A108.19 Use the appropriate trowel notch size to ensure proper bedding of the tile or stone selected.

Work the epoxy adhesive into good contact with the substrate and comb with notched side of trowel. Spread only as much epoxy adhesive as can be covered while the adhesive surface is still wet and tacky.

## INSTALLATION

Apply the adhesive to the wall with scraping motion, using the flat side of a 3/16" x 5/32" (5 x 4mm) v-notch trowel. Ensure good adhesive contact with the substrate. Use the notched side of the trowel to apply the adhesive to the substrate in one direction. Firmly press tiles into the fresh adhesive using the flat side of a clean steel trowel or grout float to ensure the tiles are fully embedded in adhesive. Do not apply more adhesive than can be covered while it is still wet and tacky. Periodically, lift and check tiles to verify that full adhesive coverage is being achieved. Allow the installation to remain undisturbed for a minimum of 24 hours at 70° F (21° C). Excess thin set mortar must be cleaned from all surfaces with a clean, wet cloth or sponge, while it is still fresh.

### **LATICRETE PERMACOLOR® Select or LATICRETE PERMACOLOR® Grout: *Polymer Fortified Cement Grout (ANSI A118.7):***

Allow tile installation to cure a minimum of 24 hours @ 70° F (21°C). Verify grout joints are free of dirt, debris and spacers. Sponge or wipe dust/dirt off veneer face and remove any water standing in joints. Apply a suitable tile pre-sealer or grout release as recommended by ARTO. Surface temperature must be between 40-90° F (4-32°C). Pour approximately 64 oz. (1.9 L) of clean, potable water into a clean mixing container. Add a 25 lb. (11.3 kg) bag of LATICRETE PERMACOLOR Grout to the container while mixing. Mix with a slow speed mixer to a smooth, stiff consistency. Install PERMACOLOR® Grout in compliance with current revisions of ANSI A108.1A, ANSI A108.02 and ANSI A108.10. Dampen dry surfaces with clean water. Spread using a sharp edged, hard rubber float and work grout into joints, packing joints full and free of voids/pits. Hold float face at a 90° angle to grouted surface and use float edge to "squeegee" off excess grout, stroking diagonally to reduce pulling grout out of filled joints. Initial cleaning can begin as soon as grout has become firm, typically 20-30 minutes after grouting @ 70° F (21°C). Begin initial cleaning by lightly dampening the entire grouted area with a damp sponge. Then wash clean the entire area with a damp (not wet) sponge. Drag a clean, dampened sponge, diagonally over the tiles faces to remove any grout haze left after "squeegeeing." Rinse sponges frequently and change rinse water at least every 200 ft<sup>2</sup> (19m<sup>2</sup>). Repeat this cleaning sequence again if grout haze is still present. Allow grout joints to become firm. Inspect joints for pinholes/voids and repair them with freshly mixed grout. Within 24 hours, check for remaining haze and remove it with warm soapy water and a nylon scrubbing pad. Do not use acid cleaners on latex portland cement grout less than 10 days old.

**PERMACOLOR® Select Mixing** Use approximately 2 – 2.25 quarts (1.9 L – 2.1 L) of clean potable water for 2 PERMACOLOR Select Color Packs and 25 lbs (11.3 kg) of PERMACOLOR Select Grout Base. Do not use with 1776 Grout Enhancer or any other latex additive. Place water in a clean mixing container. Remove Color Packs from the cardboard container as well as the protective plastic sleeve. The internal bag is a water dispersible pack – when using the 25 lbs. (11.3 kg) bag of PERMACOLOR Select, drop both color packs directly to water in clean mixing container. Mix with a drill mixer until pigment is dispersed evenly in container and the dispersible pack is no longer visible. Add PERMACOLOR Select Base. Mix with a slow speed drill mixer (300 rpm) for 1 minute. Wait for 5 minutes and remix with drill for 1 minute. If using the 12.5 lbs bag, drop only one color pack into 1 – 1.1 quarts (.8L – 1.0 L) of clean water.

## EXPANSION AND CONTROL JOINTS

Existing joints in substrate must be carried through the tile work and must conform to architectural details. Expansion joints must be installed where tiles/panels abut restraining surfaces, such as perimeter walls, curbs, columns, corners, etc. Expansion joints must be installed at all "changes of plane" in the tile work. Refer to Tile Council of North America (TCNA) Detail EJ-171 (Current Year) for industry recommendations. Use LATAFIL Sealant (and 9118 Primer as needed) for all such joints. Also, refer to Crossville technical guide.

**STONETECH® BULLETPROOF® Sealer:** Read entire label before using. Use only as directed. Always test in a small inconspicuous area with a 24-hour cure time to determine ease of application and desired results. Allow new grout installations to cure for a minimum of 72 hours prior to application. Make sure surface is clean and free of waxes and coatings. STONETECH BULLETPROOF Sealer may be applied to damp surfaces one hour after standing water has been removed. Surface temperature should be between 50°F and 80°F (10°C and 27°C). Ensure that the area is well-ventilated during application and until the surface is dry. Keep children and pets out of the area until treated surface is dry.

1. Ensure cap is closed and sealed, and shake well before use.
2. Mask off surfaces not intended to be treated.
3. Liberally apply an even coat using a paint pad, roller, brush or low-pressure sprayer.
4. Allow sealer to penetrate the surface for 10–15 minutes. During this time, keep the surface wet with sealer, adding more sealer as needed. **DO NOT ALLOW SEALER TO COMPLETELY DRY ON THE SURFACE.**
5. A second coat may be needed for porous, absorbent surfaces. If a second coat is required, it should be applied 30–40 minutes after the initial application as directed in steps 3–4.

6. Following the final application, thoroughly wipe dry the entire surface with clean absorbent towels.
7. Should a sealer residue appear, rewet the impacted section of the surface with sealer. Agitate the surface with a white nylon scrubbing pad to loosen residue and wipe dry with a clean, absorbent towel.
8. A full cure is achieved in 24–72 hours at 70 °F (21 °C). Use of the treated surface may resume in 6–8 hours. If use of the surface must resume sooner, cover the treated surface with red rosin paper to protect it until full cure has been achieved.
9. Clean tools used during application with water.

## PROTECTION

- A. Protect finished installation under provisions of section 01 50 00. To avoid damage to finished tile work, schedule installations to only after all structural work, building enclosure, and overhead finishing work are completed. Keep all traffic and trades off finished tile begin until they have fully cured.
- B. Tent / shade and heat areas that will be subjected to the elements, or freezing temperatures, during installation and cure periods.
- C. Protect newly installed exterior adhered veneer installations from direct exposure to rain for 7 days at 70°F (21°C). Protection and corrective action primarily requires temporary enclosures or tarpaulins prior to, during, and immediately after installation to shield from rain. If prolonged exposure occurs, surfaces that appear dry may be saturated internally and require testing to determine suitability of certain overlay substrates, membranes, and adhesives. Protection applies to the substrate, the installation of adhesives and joint grouts, post-installation (rain and temperature protection) until suitable cure, and also the storage and handling of the cladding material.
- D. The minimum substrate temperature requirement for cement based thin set mortars and grouts is 40° F (4°C) and the maximum temperature is 90° F (32°C). Extend period of protection of tile work at lower temperatures, below 60°F (15°C), and at high relative humidity (>70% R.H.) due to retarded set times of mortar/adhesives. Replace or restore work of other trades damaged or soiled by work under this section.

## 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.

## HOT WEATHER NOTE

The evaporation of moisture in Portland cement grouts is accelerated by hot, dry conditions. Apply installation materials to dampened surfaces and protect freshly installed materials and finished work from direct sunlight exposure, when installing in temperatures over 90°F (32°C). Typically, for every 18°F above 70°F (10°C above 21°C), installation materials cure twice as quickly. Refer to [LATICRETE TDS 176](#) for more detailed suggestions

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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.

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