

**POLYCOR 1 CM  
ULTRA-THIN REINFORCED  
SLABS**



**POLYCOR**

## SCOPE

Installations of POLYCOR® 1 CM CARBON Ultra-Thin Reinforced Granite and Marble Slabs manufactured/supplied by **POLYCOR** on interior floors, interior walls, and interior shower walls.

## NOTES TO SPECIFIER

- LATICRETE® International, Inc. champions the use of Quality Labor for all tile and stone installations, specifically those represented by the NTCA Five Star Contractor Program ([www.tile-assn.com/Member/FiveStar](http://www.tile-assn.com/Member/FiveStar)), the TCAA Trowel of Excellence Program ([www.tcaainc.org/trowel-of-excellence.php](http://www.tcaainc.org/trowel-of-excellence.php)), and the LATICRETE® Most Valued Partner (MVP) Program ([www.laticrete.com/contractors/mvp\\_site.aspx](http://www.laticrete.com/contractors/mvp_site.aspx)).
- Detail and specify HYDRO BAN® in all wet 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 025.0APD).
- Substrate deflection, under total anticipated loads, shall comply with International Building Code (IBC), International Residential Code (IRC), and applicable local building codes.
- For technical support contact LATICRETE Technical Services at +1 (800) 243-4788 extension 235, or via email, at [technicalservices@laticrete.com](mailto:technicalservices@laticrete.com)

## INSTALLATION MATERIALS

**Stone Slabs:** 1CM Ultra-Thin Reinforced Slabs produced by POLYCOR, [www.polygon.com](http://www.polygon.com).

**Uncoupling Membrane:** STRATA\_MAT™.

**Latex-Portland Cement Thinset Mortar (for bonding STRATA\_MAT to floors):** 254 Platinum

**Self-Leveling Underlayment:** NXT™ LEVEL PLUS used with NXT PRIMER

**Latex-Portland Cement Thick Bed Mortar:** 3701 Fortified Mortar

**Slurry Bond Coat (for bonded mortar beds on floors):** 254 Platinum

**Waterproofing and Crack Isolation Membrane:** HYDRO BAN®

**Epoxy Thinset Mortar (for installing stone slabs):** LATAPOXY® 300 Epoxy Adhesive

**Latex-Portland Cement Grout:** PERMACOLOR® Select

**Stain-Resistant Epoxy Grout:** SPECTRALOCK® PRO Premium Grout

**100% Silicone Caulk:** LATASIL™ and LATASIL 9118 Primer

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); Website:  
[www.laticrete.com](http://www.laticrete.com).

## PREPARATIONS

Prior to commencing installation, the Contractor is to examine substrates and advise the General Contractor and Architect of all existing conditions and surface contamination which will require correction, before the work commences.

Before starting, substrates are to be cleaned to remove concrete curing compounds, sealers, soil, mortar, dirt, dust, paint, etc. Curing compounds and sealers must be removed by bead-blasting, grit / sand blasting, hydro blasting, diamond wheel grinder with dustless vacuum attachment, or equivalent methods of mechanical scarifying.

For tiles with edges shorter than 15" (375mm), maximum allowable substrate variation is ¼" in 10' (6mm in 3m) from the required plane, with no more than 1/16" variation in 12" (1.5mm variation in 300mm), when measured from the high points in the surface. For tiles with at least one edge 15" (375mm) in length, maximum allowable substrate variation is 1/8" in 10' (3mm in 3m) from the required plane, with no more than 1/16" variation in 24" (1.5mm variation in 600mm), when measured from the high points in the surface. Use either LATICRETE® 3701 Fortified Mortar, or LATICRETE NXT™ LEVEL PLUS with LATICRETE NXT PRIMER, as a self-leveling underlayment to bring substrates into required tolerances.

Dry and dusty concrete and masonry surfaces are to be water washed, with excess water removed, just prior to the application of LATICRETE Systems Materials.

## EXPANSION AND CONTROL JOINTS

Provide control or expansion joints as located in contract drawings and in full conformity, especially in width and depth, with architectural details.

- Substrate joints must carry through, full width, to surface of tiles.
- Install expansion joints in tile work over construction/cold joints or control joints in substrates.
- Install expansion joints where tiles abut restraining surfaces (such as perimeter walls, curbs, columns), changes in plane and corners.
- Joint width and spacing depends on application - follow TCNA "**Handbook for Ceramic, Glass, and Stone Tile Installation**" Detail "EJ-171 Expansion Joints".
- Joint width:  $\geq \frac{1}{8}$ " (3mm) and  $\leq 1$ " (25mm).
- Joint width: depth ~2:1 but joint depth must be  $\geq \frac{1}{8}$ " (3mm) and  $\leq \frac{1}{2}$ " (12mm).

Layout (field defined by joints): 1:1 length: width is optimum but must be  $\leq 2:1$ . Remove all contaminants and foreign material from joint spaces/surfaces, such as dirt, dust, oil, water, frost, setting/grouting materials, sealers and old sealant/backer. Use LATICRETE LATASIL™ 9118 Primer for wet area applications, and for porous stone (e.g. some marbles) installations. Install appropriate backing material (e.g. closed cell backer rod) based on expansion joint design and as specified in section 07 92 00. Apply masking tape to face of tiles for protection, during sealant application. Use caulking gun, or other applicator, to completely fill joints with sealant. Within 5-10 minutes of filling joint, 'tool' sealant surface to a smooth finish. Remove masking tape immediately after tooling joint. Wipe excess sealant off all surfaces immediately.

## SELF-LEVELING UNDERLAYMENT INSTALLATION

If replacing an existing floor, all original finish and installation materials must be removed down to fresh substrate BEFORE Surface Prep stage can begin. Use LATICRETE® NXT LEVEL PLUS, and related LATICRETE® NXT PRIMER, as a self-leveling underlayment to attain proper floor flatness, on interior applications only.

**Surface Preparation:** Concrete slabs must have a minimum ICRI concrete surface profile (CSP) of 3. For more detailed ICRI CSP information refer to ICRI Guideline No. 03732. Use of chemicals to remove contaminants and to create a surface profile is not endorsed. Use of a sweeping compound is not

endorsed as they may contain oil which will act as a bond breaker. Additionally, concrete slabs must readily absorb water, be clean, free of oil, wax, grease, sealers, curing compounds, asphalt, paint, deicing agents, dust, dirt, loose surface material and any other contaminant that will act as a bond breaker. In addition, tensile strength testing of the concrete substrate, per ASTM C1583 or ICRI Guideline No. 03739, must show a minimum of 72 psi (0.5 MPa) tensile strength prior to installation of LATICRETE® self-leveling underlayment. Any areas that do not meet 72 psi (0.5 MPa) tensile strength must be removed and repaired.

**Priming:** Use LATICRETE NXT™ PRIMER with every application. LATICRETE NXT PRIMER is a concentrate and must be diluted with clean potable water. Dilution ratio varies depending on the substrate. For Concrete substrates with a moisture mitigation membrane, per one gallon of primer, dilute primer 1:1 (1 part primer to 1 part water). Apply a single coat of diluted primer/water mix to the point of refusal so that the substrate is completely, evenly covered and wet. While primer is still wet and white, immediately lightly scatter LATICRETE NXT LEVEL PLUS self-leveling underlayment dry powder into the wet primer. Using a push broom, work the dry powder into the wet primer/water mix forming a slurry. Continue to broom so that puddles are spread evenly over the surface and a uniform film has been applied. Coverage is approximately 285 ft<sup>2</sup> when mixed 1:1. Remove any remaining puddles by brooming and spreading evenly over the surface. Allow the primer to completely dry for a minimum of 3 – 5 hours at 70° F (21°C) and 50% Relative Humidity. Primer is considered dry when it is dry to the touch, turns from milky white to clear, there is no release of primer from the substrate and a minimum of 3 hours has elapsed. Surface may feel slightly tacky. Drying time will vary depending on surface and ambient air conditions. Substrate temperature must be a minimum 40°F (4°C) during primer application and throughout drying time. Additionally, air temperature must be maintained between 50–90°F (10–32°C) during primer application and throughout drying time. Primer must also be protected from weather and direct sunlight. Temperatures below 70°F (21°C) and/or relative humidity above 50% will increase drying time. Insufficient drying or poor film formation will result in pinholes and poor bond strength and may cause LATICRETE underlayments to debond. If primer dries within 30 minutes and if a 24 hour period is exceeded after primer application, the surface must be primed again. Primed floor must not be opened to trade traffic prior to installation of LATICRETE self-leveling underlayments. If primed floor becomes contaminated by trade traffic, construction dust, debris, flooded or any other bond inhibiting substance prior to LATICRETE product installation, the contaminated primer must be completely removed by shot blasting, scarification or other mechanical means, properly re-primed and allowed to dry prior to LATICRETE installation.

**Mixing:** LATICRETE NXT LEVEL PLUS should be mixed with 5.0 – 5.5 quarts (4.7–5.2 ℓ) of water per 55 lb (25 kg) bag. Do not over water. For manual application, add product to water and mix for 2–3 min with a heavy duty drill (650 rpm) to obtain a lump free mix. LATICRETE NXT LEVEL PLUS can also be

used in most pump equipment. Please consult with a LATICRETE representative to verify equipment compatibility. A flow test should always be performed to ensure that the mix is homogeneous and free from separation. The ideal flow range for LATICRETE NXT LEVEL PLUS is 11–12" (280 – 300 mm) using a LATICRETE Flow Test Kit. See TDS 235N –Flow Test Method - for more detailed instructions on performing flow tests.

**Perimeter Isolation Strip:** It is essential that all walls and building elements are isolated from the self-leveling underlayment pours to ensure proper expansion allowance against all restraining surfaces. Note: It is recommended to install a perimeter isolation strip before the installation of LATICRETE NXT LEVEL PLUS. Attach the perimeter isolation strip to the perimeter wall of the entire subfloor, as well as around the perimeter of any protrusions, in order to isolate the floor and wall/restraining surfaces. Temporarily fasten perimeter isolation strip in place with staples masking, duct, or carpet tape. The perimeter isolation strip can then be removed after the tiles have set firm. The joints can then be filled with LATICRETE LATASIL™.

**Main Application:** Substrate temperature should be between 40-90°F (4-32°C) during application and air temperature maintained between 50–90°F (10–32°C). Protect areas from direct sunlight. Do not use damp curing methods or curing and sealing compounds. If required to meet level tolerances, survey surface using a digital or electronic leveling device and apply level pegs as required. Adequate ventilation should be provided to ensure uniform drying. Pump or pour blended material onto substrate at an average thickness ranging between 1/8" to 1 1/4" (6–32 mm) for all surfaces. Immediately following placement lightly smooth the surface and pour lines, when not using elevation pins the use of a gauge rake will assist in controlling material depth. Do not expose LATICRETE self-leveling underlayments to rolling dynamic loads, such as forklifts or scissor lifts, for at least 72 hours after installation. Proper application is the responsibility of the user. Floor will be ready for foot traffic in 1-4 hours. Coverage will be dependent upon relative rough-ness of substrate, but the following is typical: 1/8" thickness is approximately 49 square feet; 1/4" thickness is approx. 24 square feet; 1/2" thickness is approx. square feet. Allow application of LATICRETE NXT LEVEL PLUS to cure for 72 hours, at 70° F (21 ° C), prior to installing POLYCOR® 1CM CARBON Ultra-Thin Slabs with LATAPOXY® 300 Adhesive.

## UNCOUPLING MEMBRANE INSTALLATION

Use LATICRETE® STRATA\_MAT™ as an alternative, or replacement, for traditional cement backer board or plywood underlayments. Offering the advantages of light weight, low dust, low waste and superior point load support, LATICRETE STRATA\_MAT can be used to simplify the installation of tile and stone. It additionally adds both anti-fracture and uncoupling characteristics.

Properly prepare substrate to accept the installation of LATICRETE STRATA\_MAT – refer to Data Sheet LDS0260 for specific details.

### **Installation of LATICRETE STRATA\_MAT to the substrate:**

Install LATICRETE STRATA\_MAT to the substrate using LATICRETE 254 Platinum. Mix the mortar to a loose consistency, but still able to hold a notch to enable complete wetting of the LATICRETE STRATA\_MAT fleece layer. Apply LATICRETE 254 Platinum to the substrate using a 1/4" (3mm) x 3/16" V-notched trowel, being sure to key the mortar into the substrate. Ensure mortar is "wet-out" sufficiently to allow for optimal bedding of LATICRETE STRATA\_MAT. Spread only enough mortar that can be covered with LATICRETE STRATA\_MAT during the specified open time of the mortar. Embed LATICRETE STRATA\_MAT into the mortar, fabric side down. Using a trowel, or screed, apply pressure to ensure proper bedding. Be sure to verify proper coverage beneath the mat. Areas of LATICRETE STRATA\_MAT embedded properly in the mortar will appear darker than areas not embedded. Lift mat occasionally if necessary to verify coverage. Cut mat to appropriate lengths when approaching walls or other objects, leave approximately 1/4" (3mm) between mat and edge of wall or object for movement. Install adjacent sections of LATICRETE STRATA\_MAT in the same manner, being sure to line edges of each section without leaving any gaps.

### **Installation of POLYCOR 1CM CARBON Ultra-Thin Slabs onto LATICRETE STRATA\_MAT:**

Installation of the tile finish can begin immediately after embedding LATICRETE STRATA\_MAT into the bonding mortar (LATICRETE 254 Platinum). Begin by applying LATAPOXY® 300 Adhesive to the top surface of LATICRETE STRATA\_MAT using the flat side of the trowel. Ensure that all circles and vents are completely filled. Follow by immediately applying LATAPOXY 300 Adhesive over LATICRETE STRATA\_MAT using a notched trowel that is suitable for the tile size(s) being installed. Install tiles in accordance with industry guidelines. Allow 24 hours cure, at 70° F (21 ° C), prior to grouting and exposure to light foot traffic.

## WATERPROOFING AND CRACK ISOLATION MEMBRANE INSTALLATION

Install waterproofing and crack isolation membrane in compliance with current revisions of ANSI A108.1 (2.7 Waterproofing), ANSI A108.13, and ANSI A108.17. Review the installation and plan the application sequence. Pre-cut LATICRETE Waterproofing/Anti-Fracture Fabric (if required), allowing 2" (50mm) for overlap at ends and sides to fit the areas as required. Roll up the pieces for easy handling and placement. Shake or stir HYDRO BAN<sup>®</sup> before using.

**Pre-Treat Cracks and Joints:** Fill all substrate cracks, cold joints and control joints to a smooth finish using a LATICRETE latex-fortified thin-set. Alternatively, a liberal coat\* of LATICRETE HYDRO BAN applied with a paint brush or trowel may be used to fill in non-structural joints and cracks. Apply a liberal coat\* of LATICRETE HYDRO BAN approximately 8" (200mm) wide over substrate cracks, cold joints, and control joints using a paint brush or heavy napped paint roller.

**Pre-Treat Coves and Floor/Wall Intersections:** Fill all substrate coves and floor/wall transitions to a smooth finish and changes in plane using a LATICRETE latex-fortified thin-set. Alternatively, a liberal coat\* of LATICRETE HYDRO BAN applied with a paint brush or trowel may be used to fill in cove joints and floor/wall transitions <1/8" (3mm) in width. Apply a liberal coat\* of LATICRETE HYDRO BAN approximately 8" (200mm) wide over substrate cracks, cold joints, and control joints using a paint brush or heavy napped paint roller.

**Pre-Treat Drains:** Drains must be of the clamping ring type, with weepers as per ASME A112.6.3. Apply a liberal coat\* of LATICRETE<sup>®</sup> HYDRO BAN<sup>®</sup> around and over the bottom half of drain clamping ring. Cover with a second liberal coat of LATICRETE HYDRO BAN. When the LATICRETE HYDRO BAN dries, apply a bead of LATICRETE LATASIL<sup>™</sup> where the LATICRETE HYDRO BAN meets the drain throat. Install the top half of drain clamping ring.

**Pre-Treat Penetrations:** Allow for a minimum 1/8" (3mm) space between drains, pipes, lights, or other penetrations and surrounding ceramic tile, stone or brick. Pack any gaps around pipes, lights or other penetrations with a LATICRETE latex-fortified thin-set. Apply a liberal coat\* of LATICRETE HYDRO BAN around penetration opening. Cover the first coat with a second liberal coat\* of LATICRETE HYDRO BAN. Bring LATICRETE HYDRO BAN up to level of tiles. When LATICRETE HYDRO BAN has dried to the touch seal with LATICRETE LATASIL<sup>™</sup>.



**Main Application:** Allow any pre-treated areas to dry to the touch. Apply a liberal coat\* of LATICRETE HYDRO BAN with a paint brush or heavy napped roller over substrate including pre-treated areas and allow to dry to the touch. Install another liberal coat\* of LATICRETE HYDRO BAN over the first coat. Let the top coat of LATICRETE HYDRO BAN dry to the touch approximately 1 – 2 hours at 70°F (21°C) and 50% RH. When the top coat has dried to the touch inspect the surface for pinholes, voids, thin spots or other defects. LATICRETE HYDRO BAN will dry to an olive green color when fully cured. Use additional LATICRETE HYDRO BAN to seal any defects.

**Movement Joints:** Apply a liberal coat\* of LATICRETE HYDRO BAN, approximately 8" (200mm) wide over the areas. Then embed and loop the 6" (150mm) wide LATICRETE Waterproofing/Anti-Fracture Fabric and allow the LATICRETE HYDRO BAN liquid to bleed through. Immediately apply a second coat of LATICRETE HYDRO BAN.

\* Dry coat thickness is 20 – 30 mil (0.02 - 0.03" or 0.5 - 0.8mm); consumption per coat is approximately 0.01 gal/ft<sup>2</sup> (approx. 0.4 L/m<sup>2</sup>); coverage is approximately 100 ft<sup>2</sup> /gal (approx. 2.5 m<sup>2</sup>/ L). LATICRETE Waterproofing/Anti-Fracture Fabric can be used to pre-treat cracks, joints, curves, corners, drains, and penetrations with HYDRO BAN.

**Protection:** Provide protection for newly installed membrane, even if covered with a thin-bed tile installation against exposure to water for a minimum of 2 hours at 70°F (21°C) and 50% RH. For temperatures between 45°F and 69°F (7°C to 21°C) allow a minimum 24 hour cure period.

**Flood Testing:** Allow membrane to cure fully before flood testing, typically a minimum 2 hours at 70°F (21°C) and 50% RH. Cold conditions will require a longer curing time. For temperatures between 50°F and 69°F (10°C to 21°C) allow a minimum 24 hour cure period prior to flood testing.

## FLOOR TILE INSTALLATION

**Bonded Thick Bed Method (over concrete):** Apply LATICRETE® 254 Platinum with flat trowel as a slurry bond coat approximately 1/16" (1.5mm) thick in compliance with current revision of ANSI A108. Place LATICRETE 3701 Fortified Mortar over slurry bond coat while still wet and tacky. Fully compact bed by tamping.

In instances where LATICRETE HYDRO BAN waterproofing and crack isolation membrane will be utilized, allow the mortar bed installation to cure for 72 hours, at 70° F (21 ° C) / 50 % RH, prior to installing LATICRETE HYDRO BAN over LATICRETE 3701 Fortified Mortar. In instances where

waterproofing and crack isolation is not used, allow mortar bed installation to cure for 7 days, at 70° F (21 ° C) / 50 % RH, prior to installing POLYCOR 1CM CARBON Ultra-Thin Reinforced Slabs directly to the mortar bed surface. For installation of POLYCOR 1CM CARBON Ultra-Thin Reinforced Slabs over cured (pre-floated) latex-portland cement thick bed mortar beds, follow **Thin Bed Method** as follows:

**Thin Bed Method:** Install LATAPOXY® 300 Adhesive in compliance with current revisions of ANSI A108.02 (3.14) and ANSI A108.6. Use the appropriate trowel notch size to ensure proper bedding of the tiles selected. Firmly apply LATAPOXY 300 Adhesive to the substrate with the flat side of the notched trowel ensuring complete contact with the substrate. Then, apply LATAPOXY 300 Adhesive with the notched side of trowel. Spread only as much LATAPOXY 300 Adhesive as can be covered while the adhesive surface is still wet and tacky. Apply epoxy adhesive onto the back of (i.e. 'back-butter') each tile in addition to applying LATAPOXY 300 Adhesive onto the substrate. Firmly embed each tile into LATAPOXY 300 Adhesive with a beating block or rubber mallet to insure full bedding, flatness, and support of tile edges and corners. Clean excess LATAPOXY 300 Adhesive from tile surfaces and joints between pieces immediately, before it hardens. Allow the installation to cure for 24 hours, at 70° F (21 ° C), prior to grouting and exposing to light foot traffic.

## WALL TILE INSTALLATION

**Wall Renders (Scratch & Brown Method):** No slurry bond coat is required prior to placing wall renders over clean concrete and concrete masonry surfaces. Apply LATICRETE® 3701 Fortified Mortar with a steel trowel pressing mortar into good contact with the substrate. Apply "scratch coat" first – not to exceed 1/2" (12 mm) thickness. Scratch mortar before it hardens. After "scratch coat" hardens, apply the "brown coat" working the mortar into good contact with the scratch coat. Do not exceed 5/8" (15 mm) thickness per lift. Scratch all lifts that will receive additional float coats. Float wall with steel trowel and straight edges to form a plumb and true mortar surface. Allow the completed render coats to cure for 24 hours at 70°F (21° C) prior to the installation of tile with the Thin Bed Method. Allow completed render coats to cure for 72 hours at 70°F (21° C) prior to installing LATICRETE HYDRO BAN® onto the surface of the wall render.

**Thin Bed Method:** Install LATAPOXY® 300 Adhesive in compliance with current revisions of ANSI A108.02 (3.14) and ANSI A108.6. Use the appropriate trowel notch size to ensure proper bedding of the tiles selected. Firmly apply LATAPOXY 300 Adhesive to the substrate with the flat side of the notched trowel ensuring complete contact with the substrate. Then, apply LATAPOXY 300 Adhesive with the notched side of trowel. Spread only as much LATAPOXY 300 Adhesive as can be covered while the adhesive surface is still wet and tacky. Apply epoxy adhesive onto the back of (i.e. 'back-

butter') each tile in addition to applying LATAPOXY 300 Adhesive onto the substrate. Firmly embed each tile into LATAPOXY 300 Adhesive with a beating block or rubber mallet to insure full bedding, flatness, and support of tile edges and corners. Clean excess LATAPOXY 300 Adhesive from tile surfaces and joints between pieces immediately, before it hardens. Allow the installation to cure for 24 hours, at 70° F (21 ° C), prior to grouting.

## CEMENT GROUT INSTALLATION

**Surface Preparation:** Before starting to grout, remove spacers and debris in grout joints and remove dust and dirt using a wet sponge. Do not leave water standing in joints. Note: when grouting in hot weather refer to LATICRETE TDS 176 Hot Weather Tiling and Grouting. Substrate temperature must be between 40°F (4°C) and 90°F (32°C). Apply grout release or pre-sealer if necessary to ease clean-up. Refer to TDS 400 Grout Guide for more information on grouting.

**Mixing:** Use approximately 2 – 2.25 quarts (1.9 L – 2.1 L) of clean potable water for 2 LATICRETE PERMACOLOR® Select Color Packs and 25 lbs (11.3 kg) of LATICRETE PERMACOLOR Select Grout Base. 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 LATICRETE 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 LATICRETE 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.

**Application:** Clean tile surface with a damp sponge. Spread with a sharp, firm rubber grout float or wall float for narrow wall joints. To remove excess grout hold the float at a 90° angle and pull it at a 45° angle diagonally across the joints to avoid pulling out the material.

*Note: If the grout begins to stiffen during installation, remix with drill mixer for 10–15 seconds. DO NOT ADD MORE WATER.*

**Cleaning:** For first cleaning wait approximately 35 – 40 minutes at 70°F (21°C). Wider joints or cooler temperatures may extend wait time. 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 to the joints. Allow to dry 3 hours at 70°F (21°C). For second cleaning use a damp sponge or dry cloth to remove remaining grout haze. Use caution when polishing polished stones. If grout is to be sealed, wait minimum 72 hours, at 70°F (21°C), prior to sealing LATICRETE PERMACOLOR Select, with LATICRETE STONETECH® PROFESSIONAL Heavy Duty Grout Sealer.

## STAIN-RESISTANT EPOXY GROUT INSTALLATION

**Surface Preparation:** Allow tile installation to cure for 24 hours, at 70°F (21°C), prior to grouting. Substrate temperature must be 40-95°F (4-35°C). Verify joints are free of dirt, debris or grout spacers. Sponge or wipe dust/dirt off tile faces and remove water standing in joints. Apply grout release or pre-sealer to tile surfaces if necessary to ease clean-up.

**Mixing:** Cut open pouch and pour LATICRETE® SPECTRALOCK® PRO Premium Grout Part A Liquid into a clean mixing pail. Then open pouch and pour LATICRETE SPECTRALOCK PRO Premium Grout Part B Liquid into the mixing pail. Mix by hand or with a slow speed mixer until the two liquids are well blended. Then, while mixing, add LATICRETE SPECTRALOCK PRO Premium Grout Part C Powder and blend until uniform.

**Application:** Install LATICRETE SPECTRALOCK PRO Premium Grout in compliance with current revisions of ANSI A108.02 and ANSI A108.6. Spread using a sharp edged, hard rubber float and work grout into joints, packing joints full and free of voids/pits. Then hold float face at a 90° angle to grouted surface and use float edge to "squeegee" off excess grout. Once excess grout is removed, a thin film/haze will be left.

**Cleaning:** Initial cleaning of the remaining film/haze can begin approximately 20-30 minutes after grouting. **NOTE: Conduct test area to verify that soft stones and polished marbles are not negatively affected by LATICRETE SPECTRALOCK Grout Cleaning Additive. Substitute 1/4 cup of neutral pH detergent for cleaning additive, when necessary.** Begin by mixing cleaning additive packet with 2 gallons (7.6 L) of clean water in a clean bucket to make cleaning solution. Dip a clean sponge into the bucket and then wring out cleaning solution until sponge is damp. Using a circular motion, lightly scrub grouted surfaces with the damp sponge to dissolve grout film/haze. Then drag sponge diagonally over the scrubbed surfaces to remove froth. Rinse sponge frequently and change cleaning solution at least every 50 ft<sup>2</sup> (4.7m<sup>2</sup>). Discard sponges as they become "gummy" with residue. Within one (1) hour of finishing first cleaning, clean the same area again following the same procedure but utilizing a clean white scrub pad and fresh cleaning solution. Rinse scrub pad frequently. Drag a clean sponge diagonally over the scrubbed surfaces to remove froth. Use each side of sponge only once before rinsing and change cleaning solution at least every 50 ft<sup>2</sup> (4.7m<sup>2</sup>). Allow cleaned areas to dry and inspect tile surfaces. For persistent grout film/haze (within 24 hours), repeat scrubbing procedure with clean water, a neutral pH detergent, and clean pad. Rinse with clean water and allow surface to dry. Inspect grout joint for pinholes/voids and repair them with freshly mixed SPECTRALOCK® PRO Premium Grout. Do not use acids to remove grout residue on soft polished stones.

## PROTECTION

To avoid damage to finished tile work, schedule floor installations to begin only after all structural work, building enclosure, and overhead finishing work are completed.

Keep all traffic off finished tile floors until they have fully cured. Builder shall provide up to ¾" (19mm) thick plywood or OSB protection over non-staining Kraft® paper to protect floors after installation material have cured. Covering the floor with polyethylene or plywood in direct contact with the floor may adversely affect the curing process of grout and latex/polymer fortified portland cement mortars.

Keep floors installed with epoxy adhesive closed to foot traffic for 24 hours at 70°F (21°C), and to heavy traffic for 72 hours @ 70°F (21°C).

Use kneeling boards, or equivalent, to walk/work on newly tiled floors.

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 is to 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 grout to dampened surfaces & protect freshly spread grout & finished work when installing in temperatures over 95 degrees F (35 degrees C).

## LATICRETE TECHNICAL SERVICES

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