



Innovative Tile and Stone
Installation Systems

Surface Elements Terrazzo® Tile Installation Pamphlet [R 22 March 2017]



Terrazzo®

This specification covers the installation of Surface Elements Terrazzo® Tile for interior applications.

I. SURFACE ELEMENTS – TERRAZZIO TILE MATERIALS

All Terrazzo Tile shall be provided by:

Surface Elements, Inc.

1132 Bradshaw Drive

Florence, Alabama 35630

Phone: 256-740-3977

Fax: 256-768-5207

Sales@Terrazzo.com

www.terrazzo.com

II. INSTALLATION MATERIALS

Installation materials for Terrazzo tiles shall be as supplied by LATICRETE International, Inc., Bethany, CT USA. Telephone: 1-800-243-4788 or (203) 393-0010, Fax: (203) 393-1684, Email: technicalservices@laticrete.com Internet: www.laticrete.com.

WARRANTY

The Contractor warrants the work of this Section to be in accordance with the Contract Documents and free from faults and defects in materials and workmanship for a period of 25 years. The manufacturer of adhesives, mortars, grouts and other installation materials shall provide a written twenty five (25) year warranty, which covers materials and labor - reference LATICRETE Warranty Data Sheet 025.0 for complete details and requirements.

SURFACE PREPARATION MATERIALS:

1. LATICRETE® NXT Level Plus™ self-leveling underlayment and LATICRETE NXT Primer – apply LATICRETE NXT Primer in accord with manufacturer's installation instructions. Allow primer to tack up and then apply LATICRETE NXT Level Plus self leveling underlayment (up to 1 ½" [37mm]) thickness - (see product data sheets 505.0, 502.0)
2. LATICRETE NXT Patch to repair and flash patch concrete floors up to ½" (12mm) thickness per lift (see product data sheet 501.0.

III. SUBSTRATE REQUIREMENTS / PREPARATION

Note: Substrates must meet the maximum allowable deflection standard of L/480 for Terrazzo tile finishes under total anticipated load.

Prior to commencing the installation, the contractor shall examine the areas to be covered and advise the General Contractor and Architect of any existing conditions or surface contamination which will require correction before the work commences. Before starting, surface to be covered shall be cleaned to remove curing compounds, sealers, soil, mortar, dirt, dust, etc. Curing compounds or sealers shall be removed by "bead-blasting," grit / sand blasting or diamond wheel grinder with dustless vacuum attachment or equivalent methods of mechanical "scarifying." After removal of the curing compounds or sealers all rough, uneven or "out-of-plumb" surfaces shall be made "plumb and true" to within 1/8" in 10' (3 mm in 3 m) and 1/16" in 1' (1.5 mm 300 mm) using a LATICRETE Surface Preparation product as outlined under the installation materials section. Dry or dusty concrete or masonry surfaces shall be wet down or washed and excess water removed just prior to the application of the adhesive mortar.

- **TCNA F-113** – FLOOR - Thin Bed Floor Method using LATICRETE® 254 Platinum multipurpose thin set mortar. See LATICRETE product data sheet 677.0. For full installation details and specifications see LATICRETE installation specification ES-F113 – www.laticrete.com.aq.
- **TCNA F-111** – FLOOR - Unbonded Thick Mortar bed / Cleavage Membrane with wire reinforcing. Mortar bed consists of LATICRETE 3701 Fortified Mortar Bed. Use LATICRETE 254 Platinum as a bond coat to wet set into the fresh mortar bed or as a

thin bed mortar over the hardened mortar bed. See LATICRETE product data sheets 100.0 & 677.0. For full installation details and specifications see LATICRETE installation specification ES-F111 – www.laticrete.com.ag.

- **TCNA F112** – FLOOR - Bonded Mortar bed. Slurry bond to attached mortar bed to concrete slab shall be LATICRETE 254 Platinum. Embed mortar bed into the slurry bond coat while wet and tacky. Mortar bed consists of LATICRETE 3701 Fortified Mortar Bed. Use LATICRETE 254 Platinum as a bond coat to wet set into the fresh mortar bed or as a thin bed mortar over the hardened mortar bed. See LATICRETE product data sheets 100.0 & 677.0. For full installation details and specifications see LATICRETE installation specification ES-F112 – www.laticrete.com.ag.
- **TCNA W244I** – WALL – Thin Bed Wall for Interior Wall Applications over cement backer board using LATICRETE 254 Platinum multipurpose thin set mortar. See LATICRETE product data sheet 677.0. For full installation details and specifications; see LATICRETE installation specification ES W244I– www.laticrete.com.ag
- **TCNA W260 or W215** – WALL - Epoxy Spot Bond for Interior Wall Applications over cement backer board or concrete / masonry substrates. Epoxy Spot Bond Adhesive shall be LATAPOXY® 310 Stone Adhesive (Standard or Rapid Grade). See LATICRETE product data sheets 679.0 & 679.3. For full installation details and specifications; see LATICRETE installation specification ES W265 – www.laticrete.com.ag
- Crack Isolation Membrane shall be LATICRETE® Hydro Ban™. See LATICRETE product data sheets 663.0 & 663.5.
- Waterproofing Membrane shall be LATICRETE Hydro Ban. See LATICRETE product data sheets 663.0 & 663.5.
- Grout shall be one of the following:
 - LATICRETE SpectraLOCK® PRO Premium Grout (see LATICRETE product data sheet 681.0 and 681.5)
 - LATICRETE PermaColor SELECT OR LATICRETE PermaColor™ Grout – high performance portland cement based sanded grout (see LATICRETE product data sheet 281.0 OR 250.0)
 - LATICRETE PermaColor NS – Non-sanded Grout (see LATICRETE product data sheet 116.0)
- Silicone Sealant shall be LATICRETE Latasil™ silicone sealant (see LATICRETE product data sheet 6200.1)
NOTE: Use Latasil 9118 Primer for use in all submerged applications and to improve adhesion in all applications (see LATICRETE product data sheet 6528.1)

Follow all ceramic tile and stone industry installation guidelines (including expansion joint design, construct and placement) as outlined in the Tile Council of North America's (TCNA) TCA Handbook for Ceramic Tile Installations and the American National Standard Specifications for the Installation of Ceramic Tile handbook (ANSI), the project specifications, details and the written installation instructions of LATICRETE International, Inc.

IV. INSTALLATION OF WATERPROOFING AND CRACK SUPPRESSION MEMBRANE

Waterproof membrane is installed before tile is installed in all wet areas and wet areas that are above occupied or enclosed areas. Crack isolation membrane is installed before tile is installed over all hairline cracks ($\leq 1/8"$ or 3mm) in surfaces to receive new tile work. LATICRETE Hydro Ban can be used for both waterproofing and crack isolation membrane applications.

V. ADHESIVE MORTAR INSTALLATION INSTRUCTIONS

MIXING

Follow the mixing and installation instructions for each of the individual LATICRETE products used by consulting the product data sheet, installation instructions on the product packaging, how-to-install instructions and the complete installation specification and details found at www.laticrete.com/ag. The product data sheets can be viewed and/or download by visiting www.laticrete.com

INSTALLATION OF TILE BY THINBED METHOD

The thin bed adhesive shall be applied with a $1/2" \times 1/2"$ square notched trowel using a scraping motion to work the material into good contact with the surface to be covered. A trowel having notches large enough to insure "full bedding" of the tiles is recommended. Only as much adhesive shall be applied as can be covered within 10-15 minutes, or while adhesive surface is still wet and tacky. When installing Terrazzo® Large Format Tile a small quantity of the adhesive shall be applied to the back of each tile. Tile shall then be set in place and pressed firmly to insure 100% full bedding and a true surface. Tile shall be aligned to show uniform $1/4"$ joints and then allowed to set until firm. Excess adhesive must be cleaned from the surface of the tile with a wet cloth or sponge while the adhesive is fresh.

INSTALLATION OF TILE BY SPOT BOND METHOD (Interior Vertical Applications Only)

Store epoxy resins at room temperature 70°F (21°C) for 24 hours before using. All substrates must be clean when application of LATAPOXY® 310 Stone Adhesive is made. Clean the back of the tile at areas to receive the LATAPOXY 310 Stone Adhesive. Using a damp sponge (not wet), wipe the tile to remove any particles or remaining dust to ensure a clean direct bond and that all ground material is removed. Wipe dry with a clean cloth, then apply LATAPOXY 310 Stone Adhesive. Apply dabs evenly distributed on back of the tile; 5 dabs minimum, 1 in each corner and 1 in center. Cover at least 10% of the facial area of each piece. Finished dab thickness must be a minimum of 1/8" (3mm). After application of LATAPOXY 310 Stone Adhesive onto the tile, place tile onto substrate and adjust for plumb and level.

VI. GROUTING AND POINTING JOINTS

Follow the mixing and installation instructions contained in the product packaging, data sheets and how to install instructions for the grouting product that will be utilized. Joints shall be packed full and free of all voids and pits. (Tool or rake as specified). Excess grout shall be cleaned from the surface as the work progresses, while grout is fresh and before it hardens. The day after installation grout film or haze shall be removed using a neutral Ph detergent solution. Epoxy grout haze should be removed the same day as indicated in the printed product instructions. No acids should be used for cleaning tile work.

VII. EXPANSION AND CONTROL JOINTS

Use LATICRETE® Latasil silicone sealant where a flexible silicone sealant is required and for use in movement joints. Follow industry guidelines for the design, placement and construct of movement joints. Reference Tile Council of North America's Guidelines EJ-171 and the American National Standard Specifications for the Installation of Ceramic Tile A108.01 – 3.7 Requirements for movement joints.

VII. PROTECTION

The contractor shall take precautions to protect the finished work from damage by other trades. Do not allow construction traffic on fresh grout joints. Allow the cement grout to cure for a minimum of 7 days at 70° F (21° C) before aggressive cleaning. *NOTE: Steam cleaning LATICRETE SpectraLOCK PRO Premium Grout is not recommended.*

COLD WEATHER NOTE:

The curing of portland cement based terrazzo tile and stone installation mortars, adhesives & grouts is retarded by low temperatures and finished work should be protected for an extended period of time.

WET AREA NOTE:

When using LATICRETE latex fortified cement grout allow tile work in wet areas such as swimming pools and fountains to cure for 14 days at 70° F (21° C) before exposing to immersion. When using LATICRETE SpectraLOCK PRO Premium Grout allow tile work in wet areas, such as swimming pools and fountains to cure for a minimum of 10 days at 70° F (21° C) before exposing to immersion.

For further instructions and to obtain product data sheets and other technical information, visit www.laticrete.com. This document is for informational purposes only. For detailed information on the LATICRETE Products described therein; consult the individual product data sheets. Product data sheets are subject to change.

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