



# Nurazzo® Tiles



## SPECIFICATION

This specification covers the installation of Nurazzo® terrazzo tiles on interior floors and walls in dry areas and areas subjected to intermittent water exposure.

## NOTE TO SPECIFIER

Tiles, mortars, and grouts do not provide a completely waterproof barrier. Detail and specify LATICRETE® 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 025.0).

Although Nurazzo Tiles are to be sealed after the installation is completed, the omission of grout joints between Nurazzo Tiles can potentially expose the setting bed and the substrate on which the tiles are installed to intrusion by water and other contaminants.

## MATERIALS

Tiles: Nurazzo Tiles as manufactured by Nurazzo; 212 Boring Drive; Dalton, GA 30721; Toll Free Phone: 1-888-NURAZZO (687-2996); [www.nurazzo.com](http://www.nurazzo.com).

Thick Bed Mortar: LATICRETE 3701 Fortified Mortar Bed

Waterproofing/Crack Suppression Membrane: LATICRETE Hydro Ban

Thin Bed Adhesive Mortar: LATICRETE 254 Platinum

Epoxy Thin Bed Adhesive Mortar: LATAPOXY® 300 Adhesive (For installing Nurazzo Tiles to clean, rigid, steel substrates)

Polymer Fortified Cement Grout (Optional): LATICRETE PermaColor™ Grout [For joint widths  $1/16"$  to  $1/2"$  (1.5 mm to 12 mm)].

Stain Resistant Epoxy Grout (Optional - for residential and light commercial applications): LATICRETE SpectraLOCK® PRO Grout.

100% Silicone Caulk: LATICRETE Latasil™

Tile 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

The moisture vapor emission rate (MVER) of concrete and all cementitious substrates to receive Nurazzo Tiles must be  $\leq 7.0$  lbs / 1,000 square feet in 24 hours (3.15 kg / 90 m<sup>2</sup> in 24 hours), when tested in accord with ASTM F1869, using an anhydrous calcium chloride test kit. When LATICRETE Hydro Ban is used for waterproofing and / or crack suppression, the MVER of all cementitious substrates must be  $\leq 5$  lbs / 1,000 square feet in 24 hours (2.25 kg / 90 m<sup>2</sup> in 24 hours). Prior to commencing the installation, the contractor must examine substrates and advise the General Contractor and Architect of any existing conditions or surface contamination which will require correction before the work commences. Before starting, substrates must be cleaned to remove curing compounds, sealers, soil, mortar, dirt, dust, etc. Curing compounds or sealers must be removed by bead-blasting, grit / sand blasting, diamond wheel grinder with dustless vacuum attachment, or equivalent methods of mechanical scarifying. After removal of the curing compounds and sealers, all rough, uneven or "out-of-plumb" surfaces must be made flat to within  $1/8"$  in 10' (3 mm in 3 m) and  $1/16"$  in 1' (1.5 mm 300 mm) using LATICRETE 3701 Fortified Mortar Bed. Dry or dusty concrete or masonry surfaces must be water washed and excess water removed just prior to the application of LATICRETE underlayments, membranes, and mortars.

## 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 tile abuts 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

## INSTALLATION OF WATERPROOFING AND CRACK SUPPRESSION MEMBRANE

Install waterproofing membrane in all wet areas prior to installing Nurazzo Tiles. Install anti-fracture membrane over all hairline cracks ( $\leq 1/8"$  or 3mm) in surfaces prior to installing Nurazzo Tiles.

## MIXING

Mix according to printed product instructions included with each product package. Mix only long enough to wet out the batch. Do not over-mix.

## INSTALLATION OF NURAZZO® TILES BY THE THIN BED METHOD

Apply the thin bed mortar to the substrate with scraping motion, using the flat side of the notched trowel. Work the thin bed mortar into good contact with the substrate. A trowel with notches large enough to ensure full coverage and support of the tile is required. Using the notched side of the trowel, comb the thin bed mortar in one direction. Back-butter each tile with a thin layer of thin bed mortar. Firmly press the tile into the fresh thin bed mortar and move them perpendicularly across the ridges to flatten and compress the ridges. This helps to produce maximum coverage to the backs of the tile and leave the tile corners and edges fully supported. Do not apply more thin bed mortar than can be covered within 10-15 minutes, or while thin bed mortar is still wet and tacky. Periodically, remove and check tiles to verify full thin bed mortar coverage is being achieved. Allow tile installation to set for 24 hours at 70° F (21° C), prior to grouting and prior to exposure to foot traffic. Excess thin bed mortar must be cleaned from tile surfaces with a clean, wet cloth or sponge, while it is still fresh. Seal the face of Nurazzo Tiles with Daycon Sunbrite in accord with the written recommendations of Nurazzo.

## GROUTING AND POINTING JOINTS

Nurazzo requires installing Nurazzo tiles with a grout joint. When grouting Nurazzo Tiles, ensure that the face of the Nurazzo Tiles has been pre-sealed and allow the sealer to cure in accord with the written recommendations of Nurazzo. When grouting, the grout joints must be packed full and free of all voids and pits. Excess grout must be cleaned from the surface of the tile as the work progresses, while the grout is fresh and before it hardens. The day after installation cement grout film or haze must 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 Nurazzo Tiles. If using LATICRETE® SpectraLOCK PRO Grout, use electric dishwashing machine detergent in place of the cleaning additive that is provided in the LATICRETE SpectraLOCK PRO Grout packaging. Mix approximately 1/4 cup (0.06 l) of the detergent to 3.5 gallons (13.3 l) of clean water. Change the cleaning water and sponge frequently for best results.

**Due to the difficulties of installing large format tiles with the butt joint method, Nurazzo does not recommend this type of installation for Nurazzo tiles. Nurazzo will not warrant butt joint installations.**

## PROTECTION

The contractor must take precautions to protect the finished work from damage by other trades. Do not allow construction traffic on fresh grout joints. Builder must provide up to 3/4" (18 mm) thick plywood or OSB protection board, over non-staining kraft paper, to protect floors after installation until the materials have cured. 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 Grout is not recommended.*

## COLD WEATHER NOTE

The curing of latex, epoxy, and Portland cement based 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), latex, epoxy, and Portland cement based materials take twice as long to cure.

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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