



Installation Recommendation



A NU DIMENSION IN TERRAZZO TILE

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 Bostik GoldPlus™ in all wet areas and over existing, non-structural, hairline cracks ($\leq 1/8"$ or 3mm) in the substrate. A "System" approach to installation is covered by a comprehensive 20-year warranty (Reference Bostik 20-year warranty) when membrane, mortar, grout and sealant are used.

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).

<https://nurazzo.com/>

Waterproofing/Crack Suppression Membrane: Bostik GoldPlus

Large, Heavy Tile Mortar: Bostik BAM™

Stain Resistant Epoxy Grout (required) – (for residential and light commercial applications): Bostik EzPoxy™ EzClean™ Mortar and Grout. Grout joint width minimum of $1/8"$.

100% Silicone Caulk: Bostik Pure Silicone™

Tile installation materials to be supplied solely by Bostik, Inc., 11320 W. Watertown Plank Road, Wauwatosa, WI 53226

Website: www.bostik.com/us

PREPARATIONS

Ensure tile is firmly set and mortar completely dry before grouting. Remove all spacers, debris, or adhesive from tile joints. Application of a grout release agent may be necessary to prevent staining of tile. For best results, surface of tile should be at room temperature (70°F/21°C to 75°F/24°C). Do not apply at temperatures below 60°F (16°C), or above 85°F (29°C). Epoxy materials are affected by temperature variations. Cooler temperatures will decrease workability. Warmer temperatures will reduce sag resistance. All installations must follow TCNA, NTCA and ANSI guidelines.

APPLICATION

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 each product per mixing instructions found in Technical Data Sheets. Do not overmix.

Large Heavy Tile Mortar Method: Apply a thin coat of Bostik BAM with flat edge of trowel to achieve a good mechanical bond to substrate. Comb additional mortar with the appropriate size notched trowel. If any evidence of skinning or setting occurs, remove and reapply fresh mortar. Apply mortar to an area no greater than can be tiled in up to 30 minutes. Apply tile into a fresh bed of mortar to ensure maximum contact and bond. Move the tile backward and forward, in one direction, perpendicular to the trowel ridges to collapse the trowel ridges and remove any entrapped air. Periodically check the back of the tile to ensure proper coverage (interior applications — min. 80% coverage; exterior, wet, or plywood applications — min. 95% coverage). Refer to the TCNA requirements for additional information on mortar coverage. Temperatures must be between 40°F (5°C) – 100°F (37.8°C) during installation.

NOTE: In order to achieve proper coverage, a Bostik self-leveling underlayment or floor patch may be required prior to use. If the appropriate coverage is not achieved, a larger trowel notch may be required. Back-butter each tile with mortar. A finished mortar bed thickness of 1/8" to 3/4" is required.

Application over Plywood: Maximum joist spacing shall be 16" on center. Plywood shall be underlayment exterior-grade or C-C plugged exterior-grade plywood (or better). If the existing floor is less than 1" thick, glue and nail 15/32" or 1/2" APA Underlayment exterior-grade or C-C plugged exterior-grade plywood to the floor. Glue and nail using 5D or 6D (1 1/2" or 2") cement coated screw shank nails 6" on center along the panel edges and a maximum of 8" on center each way through the panel. Allow 1/8" gap between underlayment sheet edges and all areas that abut walls, drains, posts, etc. These areas shall be filled with mortar when tiles are installed. Clean the plywood. Due to the limitations of plywood as a substrate, BAM is not intended for use on plywood in exterior, wet interior, or applications subject to heavy/commercial traffic.

Application over Existing Vinyl/VCT Flooring: Vinyl must be clean and well-bonded to substrate. Do not install over cushion-backed or perimeter bonded sheet vinyl. Remove any loose pieces of vinyl, VCT flooring. Ensure the exposed substrate is suitable for application. Some flooring may contain asbestos. Follow all federal, state and local guidelines for proper removal. Refer to the Resilient Floor Covering Institute's "Recommended Work Practices for the Removal of Resilient Floor Coverings."

Application over Existing Ceramic Tile: Tile must be clean and well bonded to substrate. Mechanically abrade with a carborundum disk and perform dust extraction, followed by a clear water wash. Installation must be thoroughly rinsed and dry before setting the new tile. Follow all applicable rules and guidelines set forth by OSHA.

EZPOXY EZCLEAN GROUT:

Allow porcelain panel installation to cure minimum 16 - 24 hours @ 73°F (23°C). For best results, surface, mortar, and tile should be at room temperature (70°F/21°C to 75°F/24°C). Do not install in temperatures lower than 60°F (16°C) or above 85°F (29°C). Substrate temperature must be 50 - 90°F (10 - 32.2°C). Verify joints are free of dirt, debris, thin-set mortar, or grout spacers. Sponge or wipe dust/dirt off panels faces and remove all water standing in joints. Apply grout release to panel faces to facilitate cleaning. Pour entire contents of Bostik EzPoxy EzClean into a 2-5 gallon pail. Mix for approximately 40 seconds. Add the sand/colorant packet and mix for approximately 1 additional minute. Immediately pour product onto cool substrate to extend working time.

APPLICATION

GROUT: Lightly moisten tile with clean, damp sponge before grouting. Spread grout over the face of the tile using a hard rubber epoxy grout float. Work grout back and forth at a 45° angle to the face of the tile to ensure complete filling of the joints. Remove excess grout by holding the rubber float at a 90° angle working diagonally across face of the tile.

INITIAL CLEANING: Begin cleaning the surface of the tile with water and a nylon scrub pad (i.e.: 3M™ Doodlebug™), using a circular cleaning motion. Immediately remove the epoxy/water residue with a slightly damp sponge (or turkish towel), by wiping (or dragging the towel) diagonally across the face of the tile. Use a wet sponge to "tool" the grout joints as required. Rinse sponge/towel frequently using two pails of water, one for rinsing out the heavy residue and the other for rinsing with clean water. Change water and rinse sponge/towel frequently to minimize the build up of epoxy haze. (Initial clean-up should begin as soon as possible.)

FINAL CLEAN UP: Depending on humidity and temperature, begin final clean up approximately 6-8 hours after initial cleaning. Clean the surface of the tile with lots of water and a nylon scrub pad (i.e.: 3M™ Doodlebug™), using a circular cleaning motion. Use of a buffing machine equipped with a white or blue 3M™ Doodlebug™ pad during final clean up will increase efficiency on large jobs.

HELPFUL HINT: Although EzPoxy™ EzClean™ may be cleaned with water only, final clean up is enhanced tremendously with the addition a dilute Alkaline Cleaner. NEVER use acid cleaners or Bostik Ultimate™ Adhesive Remover, as they will result in irreversible damage to the grout or tile.

CLEAN-UP: Clean tools immediately with soap and water. Do not let material cure on the tile surface.

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. Builders 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 epoxy grout to cure for a minimum of 7 days at 70°F (21°C) before aggressive cleaning.

COLD WEATHER NOTE

The curing of latex, epoxy, and Portland-cement-based materials is slowed 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.

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