

Part 1: Nurazzo Specifications

I. General

- A. MARBLE Terrazzo tile and accessories
- B. Glass Terrazzo tile and accessories
- C. Related work specified elsewhere
 - 1. Section 03300: Cast in place concrete
 - 2. Section 06100: Rough Carpentry
 - 3. Section 09400: Terrazzo

II. Quality Criteria

- A. Provide Standard: The material is to comply with the following standards and provide the minimum results shown:

1. Abrasive Resistance	ASTM D-04060	35 mg
2. Impact Resistance	MIL-D3134F	Withstands 16 ft/lbs without cracking, delamination or chipping
3. Slip Resistance	ASTMD-2047	Wet: 0.62 Dry: 0.85
4. Compressive Strength	ASTM C-579, 7 days	10,000 psi minimum
5. Tensile Strength	ASTM C-307	2,500 psi
6. Flame Spread	ASTM D-84	20
7. Smoke Generation	ASTM E-622	
8. Flaming		124
9. Non-Flaming		60
10. Fire Rating		Class A
11. Water Absorption	ASTM D-570	0.01%
12. Freeze Thaw	ASTM 6-1026	No effect
13. Stain Resistance	ASTMD-2299	Completely removed after 24 hours
14. Toxicity Material Safety Data		Negative
15. Critical Radiant Flux	ASTM D-648	1.0 (Class I)
16. Fungus & Bacteria Growth	MIL-F-52505	Will not support growth of fungus or bacteria when subject to mildew and bacteria tests
17. Indentation	MIL-D3134f	Withstands 2,000 lbs/sq. in. for 30 minutes without indentation
18. Flexural Strength	ASTM C-580	3,000 psi
19. Thermal Coefficient of Expansion	ASTM C-580	21×10^{-6}

- B. Application Setting Materials and all accessory items are to be material recommended by the manufacturer of Nurazzo.



A **NU** DIMENSION IN TERRAZZO TILE

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III. Submittals

- A. Product Data: Submit (4) copies of manufacturer's product literature including technical information and installation instruction for each type of Floor and Wall tile, accessory, and adhesive material.
- B. Shop Drawings: Submit 4 blue prints of Nurazzo work. Shop Drawings are to be drawn to $\frac{1}{2}'' = 1'-0''$ scale or larger and are to show plans for layout work and details of joints and edge conditions.
- C. Samples: Submit 3 samples of each pattern and color of Nurazzo required, not less than 3' x 3'. Samples are to be review for color, pattern and texture only.
- D. Maintenance Instructions: Submit 3 copies of written instructions for recommended periodic maintenance of Nurazzo tiles.

IV. Product Delivery, Storage and Handling

- A. Material is to be delivered to the job site in manufacturer's original unopened containers.
- B. Store materials inside, undercover and protected from moisture and edge damage.
- C. Handle all materials carefully to prevent damage to edges and corners.

V. Job Conditions

- A. Interior – Do not begin Nurazzo installation until the building has been held to a minimum temperature of 70°F for 5 full days. Nurazzo tile must be removed from original packaging and stacked in area it is to be installed. Tiles must be allowed to acclimate for 72 hours prior to installation. A minimum of 70°F must be maintained throughout the installation period and for 2 days after the installation is complete.

VI. Warranty

- A. Nurazzo is backed by a 20 year limited warranty against wear-through. The limited warranty applies to Nurazzo that has been installed using Nurazzo manufacturer's approved support products and in strict conformity with Nurazzo Installation and Maintenance instructions. In the event of any such failure of wear-through within the warranty period, Nurazzo LLC's sole obligation is, at its expense, to furnish like or similar Nurazzo tile for the replacement of the individual tiles. The user, at his expense, will perform the replacement. Nurazzo LLC shall not be liable under any circumstances for incidental consequential damages of any kind whatsoever such as labor, inconvenience or injury. Nurazzo provides no warrant of merchantability or fitness for a particular purpose: user shall determine suitability of this product for its intended use and assumes all risks of its use and handling.





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Part 2: Products

I. Nurazzo Floor Tile

- A. Raw Material: Nurazzo Tile to be manufactured of natural stone, recycled glass, and an epoxy resin binding matrix.
- B. Size: Nurazzo Tile to be 3/16" or 1/4" thickness and either 12" x 12", 12" x 24", or 24" x 24" tile.
- C. Color: To be selected by the Architect/Interior Designer from the manufacturer's standard color selections.

II. Thinset Method

- A. Laticrete 254 Platinum as manufactured by Laticrete International (1 Laticrete Park North Bethany, CT 06524-3423, Phone: 203-393-0010 ext. 235 or 800-243-4788 ext.235).
- B. MAPEI: Thin-Bed Mortar: MAPEI, Ultraflex™3, MAPEI, Kerabond Keralastic™System. Rapid Setting; Granirapid System™ manufactured by MAPEI Corporation, 1144 East Newport Center Drive, Deerfield Beach, FL, 33442 (phone: 1-888-876-2734; fax 954-246-8805; email, www.mapei.com).
- C. TEC® Super Flex™ or TEC Isolight™ Mortar as manufactured by H.B. Fuller Construction Products Inc. (1105 S. Frontenac Road, Aurora, IL 60504, Phone: 1-800-552-6225)

III. Glue Down Method

- A. Nurazzo 2100 Adhesive as manufactured by Nurazzo (212 Boring Drive, Dalton, Georgia 30721; Phone: 1-888-687-2996; www.nurazzo.com)

IV. Joint Lines

- A. Nurazzo tiles are to be installed with a grout joint, grout should be an epoxy grout and joint lines can be as small as 1/8" but no greater than 1/4".

V. Expansion Joint Control Strips

- A. Materials to be type suitable for the joint size and recommended by specifier or approved by the Nurazzo Tile manufacturer.



Part 3: Execution

I. General Preparation

- A. Building temperature of 70°F to have been maintained for 5 days prior to the start of installation and all material is to have been acclimatized in the building for 72 hours.

II. Substrate Preparation

- A. Concrete
 1. The concrete or concrete block substrate will have been placed and finished for a minimum of 28 days prior to beginning installation and must have a smooth, hard finish.
 2. Where concrete does not have a smooth finish Lati-level 88 as manufactured by Laticrete International (1 Laticrete Park North Bethany, CT 06524-3423, Phone: 203-393-0010 ext 235 or 800-243-4788 ext 235) must be installable to bring the concrete to a smooth even finish.
 3. All oils, waxes, curing compounds or other materials on the surface of the concrete that will inhibit adhesion are to be removed. Surface to be completely dry prior to installation of Nurazzo.
- B. Plywood
 1. Plywood sub floor to be composed of two layer of 5/8" exterior grade plywood. Plywood to be screwed to framing on 16" centers.
 2. Surface to be completely clean and dry prior to installation of Nurazzo.
 3. Entire surface is to be examined for soft spots. No flexing or deflection in the surface. Replace soft substrate or add additional bracing to eliminate deflections.

III. Installation: General

- A. All installation to be in strict accordance with manufacturer's printed installation instructions.
- B. All cutting of Nurazzo tile to be accomplished with an abrasive or diamond blade in a rotary wet saw.
- C. All hole or circles to be cut using carbide tipped drill or diamond hole saw.
- D. Control Joints to be installed when crossing expansion joints in substrate.

IV. Installation: Mortar

- A. All installation to be in strict accordance with the manufacturer's printed installation instructions.
- B. Do not allow grout or mortar to get on the front side of the Nurazzo tile.

V. Installation

- A. All installation to be in strict accordance with manufacturer's printed instructions.

VI. Clean Up and Protection

- A. Remove all excess and scrap materials from the job immediately after installation is complete.
- B. Provide Kraft paper covering over traffic areas until completion of project and floor is sealed.
- C. Remove any excess adhesive or grout from the Nurazzo immediately after it appears on the surface.

VII. Finishing

- A. Finish - All application tools must be clean and should not have been used for any other product. Prepare the floor first by stripping and neutralizing the surface making sure the floor is clean and dry before application. For best results, use a white, nylon finish mop to apply the product. Apply a thin coat of NuSeal, allowing 30-45 minutes to dry before applying additional coats. Do not recoat until previous coat is completely dry. 3 to 6 coats of NuSeal are required. Once finished has dried, buff floor with a high speed (1500 rpm) buffer. Buffing will produce a beautiful shine.