



PRODUCT TESTING SERVICE

100 Clemson Research Blvd. ■ Anderson, SC 29625 ■ Tel (864) 646-TILE ■ Fax (864) 646-2821

November 11, 2014

Nue Tile LLC
Attn: Joe D'Agostino
1148 Meadow Lane
Grand Island, NY 14072

Dear Mr. D'Agostino,

Tile Council of North America has tested the samples you submitted. Test report TCNA-527-14 is enclosed. If you have any questions or concerns, please contact us.

Best Regards,

TILE COUNCIL OF NORTH AMERICA, INC.

Katelyn Simpson
Laboratory Manager
Enclosures



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TCNA TEST REPORT NUMBER: TCNA-527-14

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TEST REQUESTED BY: Nue Tile LLC

TEST METHOD: ASTM C627: "A Standard Test Method for Evaluating Ceramic Floor Tile Installation Systems Using the Robinson-Type Floor Tester"

TEST SUBJECT MATERIAL: Identified by client as: "Ceramic Tile Release System"

TEST DATE: October 20 - 21, 2014

TEST AND MATERIAL DESCRIPTION:

As per the client's request, the following materials have been used for the preparation of the testing pads.

Item #	Product name and size	Product Codes	Provided By:
1	Concrete base with a smooth finish Nominal Size: 48" x 48" x 2" (1219 mm x 1219 mm x 51 mm)	N/A	TCNA
2	Nue Tile Release Spray	N/A	Nue Tile LLC
3	Nue Tile Release Membrane	N/A	Nue Tile LLC
4	Laticrete 254 Platinum Thin-set	809889-013 254-0050-21	TCNA
5	12" x 12" Crossville Porcelain tile	A850	TCNA
6	Laticrete 1500 Sanded grout	1545-0025-2 848095-001	TCNA

TYPE OF INSTALLATION:

All the materials used were specified by the client and the tested assembly was built per the client's instructions.

Further details about the installation are provided below.

Base:

A 48" x 48" x 2" concrete base was prepared and cured for a minimum of 28 days prior to testing. The surface was swept cleaned and thoroughly dried prior to applying the underlayment.

Katelyn Simpson
Laboratory Manager

11/11/14
Date



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Underlayment:

The underlayment installation was performed by a TCNA representative. The installation procedures are outlined below.

The Tile Release Spray adhesive was applied per client's instructions and allowed to become tacky (approximately 30 minutes) before applying the Nue Tile membrane. The 20" x 20" Nue Tile membrane pieces were placed in the adhesive around the perimeter edges of the system, then the inner area was filled in with cut pieces. Special care was taken to ensure there was a 1/4" gap between the pieces of membrane per the client's instructions. The underlayment mat was then rolled with a small hand roller, supplied by the client, to eliminate voids and to secure the bond.

Tile preparation:

The tiles used were 12" x 12" Crossville porcelain tiles. Full tiles were installed in the wheel path of the tester. The tiles for the perimeter were cut on a wet saw and dried prior to installation.

Tile and Grout:

All tile and grout installation was performed by a TCNA representative. The installation procedures are outlined below.

Laticrete 254 Platinum thin-set mortar, mixed with water per the manufacturer's instructions (mix ratio 22.9:100), was troweled over the underlayment with a 1/4" x 3/8" square-notched trowel. The thin-set was first keyed-in with the flat side of the trowel and then combed with the notched side to form parallel ridges. The 12" x 12" Crossville porcelain tiles were back buttered with a skim coat to ensure proper coverage. The tiles were set in the thin-set mortar by pressing down and sliding the tiles in a direction perpendicular to the combed ridged. Once set, the system was allowed to cure for 72 hours before grouting.

Laticrete 1500 series sanded grout was mixed with water per manufacturer's instructions (mix ratio 16.6:100), was forced into the 3/16" grout joints with a rubber float. Excess grout was removed with the edge of the float. The grout was allowed to set up for approximately 20 minutes before the installation was cleaned with a sponge and water. The grouted installation was subsequently allowed to cure for 28 days.

TEST RESULTS:

The installation completed fourteen cycles with no evidence of damage to the tiles or grout joints. All evaluation criteria were based on 8 tiles and 8 grout joints in the wheel path of the Robinson-Type Floor Tester.

CONCLUSION:

In accordance with the Performance-Level Requirement Guide and Selection Table of the 2014 *TCNA Handbook for Ceramic, Glass, and Stone Tile Installation* (page 40), the test pad reached the "EXTRA HEAVY" classification.

Katelyn Simpson
Laboratory Manager

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Appendix A: Photo



Image 1: Full Assembly showing 12" x 12" Crossville porcelain tiles after testing



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Appendix B: Tile Removal

The client requested that all tiles be removed from the test pad after testing and that the following information be recorded: There were 8 full pieces and 12 half pieces of tile originally installed on the test pad and all were removed without cracking. The full system including the membrane was removed as one full unit. Some glue residue remained on the surface. The removal process took less than 1 minute to perform. It took an additional 5 minutes to scrape the visible adhesive from the concrete substrate but the substrate still felt tacky after removal.

The following image shows the system after removal from the concrete substrate:

A handwritten signature in blue ink that reads "Katelyn Simpson".

Katelyn Simpson
Laboratory Manager

11/11/14
Date