



Tile Council of America, Inc.

100 Clemson Research Blvd.

# PRODUCT TESTING SERVICE

Anderson, SC 29625 Tel (864) 646-TILE Fax (864) 646-2821

**TCA TEST REPORT NUMBER:** TCA-078-02

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**TEST REQUESTED BY:** Amorim Industrial Solutions  
Attn: Larry Lyons  
26112 110<sup>th</sup> Street  
Trevor, WI 53179

**TEST SUBJECT MATERIAL:** R130 ½-inch AcoustiCORK<sup>®</sup> Sound Control Underlayment

**TEST DATE:** 6/11/02

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

*Materials:*

A sound isolation installation over a concrete base was prepared using the following materials:

- 1) A 42" x 42" concrete base with a broom finish
- 2) DAP multipurpose organic tile adhesive
- 3) ½-inch AcoustiCORK<sup>®</sup>
- 4) Bostik Hydroment Single-Flex Mortar Rapid Setting (Multipurpose Latex Modified High Performance Mortar); Gray
- 5) Florida Tile Natura Series 8 x 8 glazed paver tile; Rose
- 6) Latapoxy SP-100 Epoxy Grout; Antique White

*Base and Underlayment:*

Multipurpose organic adhesive was applied to the concrete base with a 3/16 x 5/32 V-notched trowel—first keying in the adhesive with the flat side of the trowel and then combing it with the notched side to form parallel ridges. Four 24" x 24" sheets of AcoustiCORK<sup>®</sup> were set into the troweled adhesive and smoothed out by hand to remove any excess air. A roller was used to further adhere the adhesive and the underlayment. The installation was allowed to cure for 24 hours.

Testing Services: [testing@tileusa.com](mailto:testing@tileusa.com)

Technical Questions: [technical@tileusa.com](mailto:technical@tileusa.com)

Web Site: [www.tileusa.com](http://www.tileusa.com)

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*Tile and Grout:*

Multipurpose thin-set mortar was troweled over the AcoustiCORK® with a 1/4" x 3/8" U-notched trowel—first keying in the mortar with the flat side of the trowel and then combing the mortar with the notched side to form parallel ridges. Glazed paver tiles were set in the thin-set by pressing down and sliding the tile in a direction perpendicular to the combed ridges (recommended method for bonding large size tile). A beat-in block and rubber mallet were used to reduce lippage between the tile. After the tiles were set, the installation was allowed to cure for 24 hours before grouting.

Epoxy grout was forced into the tile joints with a rubber float. Excess grout was removed by holding the float at a 90° angle. The grout was allowed to set up for approximately 5 minutes before the installation was cleaned with a sponge and clean water. The grouted installation was subsequently allowed to cure for 7 days.

At the end of the cure period, the installation was subjected to cycling as defined in ASTM C627.

**TEST RESULTS:**


The installation completed five cycles with no evidence of damage to the tile or grout joints. At the completion of cycle six (hard rubber wheels, two hundred pounds per wheel), one tile was chipped. At this point, the total damage constituted failure of the installation according to the evaluation criteria of ASTM C627.\*

\*All evaluation criteria were based on 16 tile and 16 grout joints in the wheel path of the Robinson-Type Floor Tester.

**CONCLUSION:**

In accordance with the Performance-Level Requirement Guide of the 2002 Handbook for Ceramic Tile Installation, the installation is rated as "RESIDENTIAL" for "kitchens, bathrooms, and foyers".

TEST SUBMITTED BY:

  
\_\_\_\_\_  
Noah Chitty  
Laboratory Manager

  
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Date