



# PRODUCT TESTING SERVICES

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

TCNA TEST REPORT NUMBER: TCNA-363-09

PAGE: 1 OF 2

**TEST REQUESTED BY:** Laticrete International, Inc.  
Attn: Rosi Rooshenas /Dr. Bright  
91 Amity Rd.  
Bethany, CT 06524

**TEST SUBJECT MATERIAL:** Identified by client as: Laticrete 125 Sound & Crack Adhesive

**TEST DATE:** 10/27/09 - 10/28/09

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

*Materials:*

A thin-set installation over a concrete base was prepared using the following materials:

- 1) A 42" x 42" x 2" concrete base with a steel trowel finish
- 2) Laticrete 125 Sound & Crack Adhesive
- 3) 12" x 12" Crossville porcelain tiles with 1/4" grout joints
- 4) Laticrete SpectraLOCK epoxy grout

*Tile and Grout:*

Laticrete 125 Sound & Crack Adhesive was mixed with water per the manufacturer's instructions. The mortar was troweled over the concrete base with a 1/4" x 3/8" square notched trowel. The thin-set mortar 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 set in the thin-set by pressing down and sliding the tile in a direction perpendicular to the combed ridges. A beat-in block and rubber mallet were used to reduce lippage between tiles. After the tiles were installed, the thin-set was allowed to cure for 24 hours before grouting.

  
Katelyn Simpson  
Laboratory Manager

11/2/09  
Date

Testing Services: [testing@tileusa.com](mailto:testing@tileusa.com) Literature Orders: [literature@tileusa.com](mailto:literature@tileusa.com) Web Site: [www.tileusa.com](http://www.tileusa.com)

This report is confidential and has been prepared for the exclusive use of the client. It is not an endorsement, approval, certification, or criticism of any product by TCNA. This report shall not be published in any form without prior written consent of TCNA.



## PRODUCT TESTING SERVICES

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

TCNA TEST REPORT NUMBER: TCNA-363-09

PAGE: 2 OF 2

### *Tile and Grout continued:*

Laticrete SpectraLOCK epoxy grout, mixed per the manufacturer's instructions, was forced into the 1/4" 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.

At the end of the cure period, the installation was subjected to load cycling as defined in ASTM C-627.

### TEST RESULTS:

The installation completed seven cycles (hard rubber wheels, three hundred pounds per wheel) with no evidence of damage to the tiles or grout joints. At the completion of cycle eight (hard rubber wheels, three hundred pounds per wheel), there was one broken tile. The installation went on to complete fourteen cycles (steel wheels, three hundred pounds per wheel) with no additional 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 of the 2009 *TCA Handbook for Ceramic Tile Installation*, page 16, the installation is classified as "EXTRA HEAVY" for "extra heavy and high-impact use in food plants, dairies, breweries, and kitchens".

  
Katelyn Simpson  
Laboratory Manager

11/2/09  
Date