

## PRODUCT TESTING SERVICE

100 Clemson Research Blvd.

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

TCNA TEST REPORT NUMBER:

TCNA-740-15

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**TEST REQUESTED BY:** 

Nue Tile LLC

TEST METHOD:

Modified System Crack Resistance Test\*

The client requested that the membrane sample be tested per the system crack resistance test found in ANSI A118.12 section 5.4, with some modifications. The procedure followed is described below.

**TEST SUBJECT MATERIAL:** 

Identified by client as: "Nue Tile Release System"

Description of sample received: 20"x20" Sheets of membrane

**TEST DATE:** 

12/14/2015 - 12/18/2015

### **TEST PROCEDURE NOTES:**

The NUE TILE Release Spray was applied to the faces of two 10 x 8 x 2-inch concrete blocks, placed side by side with a 1/16" gap between them, per the manufacturer's directions. One piece of NUE TILE Membrane was applied to the two substrates, bridging the 1/16" gap, per the manufacturer's directions. A specific pattern of 4 x 8 x ½-inch quarry tiles (detailed in ANSI A118.12 section 5.4) was bonded to the membrane with Mapei Ultraflex 3 using a 1/4" x 3/8" Square-notched trowel. The system was allowed to cure for 24 hours before grouting with Mapei Flexcolor CQ grout. The specimens were cured for an additional 28 days. The specimens were then tested using the device specified in ANSI A118.12 section 5.4. The specimens were subjected to four 1/16" intervals beyond the eight intervals specified in ANSI A118.12 section 5.4 per the client's request. This totaled a 3/16" gap opening during testing.

#### TEST RESULTS:

Specimen	Observations
Specimen 1	The concrete substrates were separated 3/16" with no damage to the tile or grout joints.*
Specimen 2	The concrete substrates were separated 3/16" with no damage to the tile or grout joints.*
Specimen 3	The concrete substrates were separated 3/16" with no damage to the tile or grout joints.*

<sup>\*</sup>COMMENTS: This procedure is not a standardized testing method. As the device was separating, the concrete substrate was moving but the membrane was not.

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12/23/2015

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