

PRODUCT TESTING S

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100 Clemson Research Blvd. Anderson, SC 29625 Tel (864) 646-TILE Fax (864) 646-282

TCNA TEST REPORT NUMBER: TCNA-276-10

TEST REQUESTED BY: Butech Building Technology

Ctra. Villareal-Puebla de Arenoso(CV-20) Km 2,5

Villarreal Spain

TEST SUBJECT MATERIAL: Identified by client as: Lamitec N

TEST DATES: 8/17/10-9/23/10

ANSI SPECIFICATION FOR CRACK ISOLATION MEMBRANES FOR THIN-SET **CERAMIC TILE AND DIMENSION STONE INSTALLATION (A118.12)**

TEST/DESIGNATION	EVALUATION	ANSI SPECIFICATION
Mold Growth (4.1)	Membrane supports mold growth	"Membrane shall not support mold growth."
Shear Strength to Ceramic Tile and Cement Mortar (5.1)		
7-day shear strength (5.1.3)	149 PSI	Greater than 50 PSI
7-day water immersion shear strength (5.1.4)	50.4 PSI	Greater than 50 PSI
4-week shear strength (5.1.5)	117 PSI	Greater than 50 PSI
Shear strength @ 0.0625 in.	53 PSI	Standard Performance: 20 PSI
deflection		
Shear Strength @ 0.125 in.		High Performance: 20 PSI
deflection		
Accelerate Aging shear strength (5.1.6)	183 PSI	Greater than 50 PSI
Shear strength @ 0.0625 in.	38 PSI	Standard Performance: 20 PSI
deflection		
Shear Strength @ 0.125 in.		High Performance: 20 PSI
deflection		
Point Load Test (5.2)*		
Sample 1	1325 PSI	Greater than 1000 lbf
Sample 2	1637 PSI	Greater than 1000 lbf
Sample 3	1264 PSI	Greater than 1000 lbf

*NOTE: The membrane was bonded to the faces of three 6 x 6 x 2-inch concrete blocks per manufacturer's directions. Three 12 x 12-inch unglazed porcelain tiles were cut to 6 x 6-inch and bonded to the membrane with TCNA High Performance ANSI A118.4/A118.11 thin-set mortar. The thin-set mortar was buttered on the back of the tiles to ensure maximum coverage and 1/8-inch spacers were used to provide a uniform bond coat. The blocks were cured for an additional 28 days.

revised

Laboratory Manager



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ANSI SPECIFICATION FOR CRACK ISOLATION MEMBRANES FOR THIN-SET **CERAMIC TILE AND DIMENSION STONE INSTALLATION (A118.12)**

Specimen 2:
0.016-inches No Cracking to grout or tile
0.032-inches No Cracking to grout or tile
0.048-inches No Cracking to grout or tile
0.064-inches No Cracking to grout or tile
0.080-inches Three cracked grout joints
0.096-inches No additional damage
0.112-inches No additional damage
0.128-inches Two additional cracked grout
joints

NOTE: The membrane was applied, per the manufacturer's directions, to the faces of two 10 x 8 x 2inch concrete blocks butted and strapped together to form a 20 x 8 x 2 unit. A specific pattern of 4 x 8 x ½-inch quarry tiles (detailed by the method) was bonded to the membrane with TCNA High Performance ANSI A118.4/A118.11 thin-set mortar using a 1/4 x 1/4 -Square-notch trowel. The system was allowed to cure for 24 hours. The system was grouted using Mapei Keracolor S sanded grout. The blocks were cured for an additional 28 days.

In accordance with ANSI A118.12 system crack resistance test, this material is classified as "high performance".

[The ANSI A118.12 Requirement for system crack resistance states: "standard performance: tile failure occurs after 1/16" specimen gap opening, but before 1/8" gap opening. High performance: Tile failure does not occur by 1/8" specimen gap opening."]

Laboratory Manager

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PRODUCT TESTING SERV

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TEST REQUESTED BY:

Butech Building Technology

Ctra. Villareal-Puebla de Arenoso(CV-20) Km 2,5

Villarreal Spain

TEST SUBJECT MATERIAL:

Identified by client as: Lamitec N

TEST DATES:

11/11/10-11/25/10

ANSI SPECIFICATION FOR CRACK ISOLATION MEMBRANES FOR THIN-SET CERAMIC TILE AND DIMENSION STONE INSTALLATION (A118.12)

TEST/DESIGNATION	EVALUATION	ANSI SPECIFICATION
Mold Growth (4.1)	Membrane does not support	"Membrane shall not
	mold growth	support mold growth."

Katelyn Simpson

Laboratory Manager