## SMITH-EMERY LABORATORIES



An Independent Commercial Testing Laboratory, Established 1904

781 E. Washington Boulevard Los Angeles, California 90021 ◆ (213) 749-3411 ◆ Fax (213) 741-8626

\*Revised & Reissued December 1, 2005

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Client:

**BLANKE CORPORATION** 

ATTN: JOE LINZMEYER 3631 CLEARVIEW PARKWAY

ATLANTA GA 30340

Subject: Ceramic Floor Tile Installation Evaluation for \*PERMAT Underlayment.

Specification: ASTM C 627

Source: Submitted to Laboratory by Client.

Sample Description

Joists: 2 x 4 s at 24 inches on center-Plywood: \*3/4 inch Single Layer Plywood

Mortar: Laticrete Multi Purpose Thin Set Mortar 254 Platinum White (Blanco) mixed with water

and using a 1/4 inch by 3/16 inch Trowel V-Notch

Underlayment: \*BLANKE PERMAT

Mortar: Laticrete Multi Purpose Thin Set Mortar 254 Platinum White (Blanco) mixed with wateand

using a 1/4 inch by 3/16 inch Trowel U-Notch

Tiles: 12 inch x 12 inch x 3/8 inch Porcelain Tiles St. John Blanco (Ceramica Magica ) Made in Italy Grout: Laticrete Tri Poly Fortified Sanded Grout 1500 Series mixed with Laticrete Grout Admix Plus 1776

with Microban

## REPORT OF TESTS

Setting

No. of Tile on Wheel Path: 12 No. of Grout Joints on Wheel Path: 12 Date Tested: Start: September 27, 2005: 9:30 AM

Finish: September 29,2005: 10:00 AM

a.) Soft Rubber Wheels

Cycle Number:		1	2	3	4
Total Weight per Wheel:		100 lbs.	200 lbs.	300 lbs.	300 lbs.
Cycle Duration, hr.:		l hour	1 hour	1 hour	1 hour_
Total No. of Revolution:		900	900	900	900
D. A. dien	Intl Deflection	.000	012	026	027
Deflection Movement	Start of Cycle	009 +.009	021023	033010	034011
	End of Cycle	.000	014	027	028

Maximum Allowable

Record of Damage

Damage

neces a cy 2 mininger					
Chipped Tile	none	none	none	none	5%
Broken Tile	none	none	none	none	3%
Loose Tile	none	none	none	none	3%
Popped-Up Grout Joint	none	none	none	none	5%
Cracked Grout Joint	none	none	none	none	5%
Powdered Grout Joint	none	none	none	none	5%

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Ceramic Floor Tile Installation Evaluation for \*PERMAT Underlayment.

## b.) Hard Rubber Wheels

Cycle Number:		5	6	7	8
Total Weight per Wheel:		100 lbs.	200 lbs.	300 lbs.	300 lbs.
	vele Duration, hr.:		1 hour	1 hour	1 hour
Total No. of Revolution:		900	900	900	900
D 0 .:	Intl Deflection	027	014	025	029
Deflection	Start of Cycle	005 +.007	027 +.007	044002	046002
Movement	End of Cycle	000	015	029	030

Maximum Allowable

Record of Damage:

Damage

necon a of Daniage.					
Chipped Tile	none	none	none	none	5%
Broken Tile	none	none	none	none	3%
Loose Tile	none	none	none	none	3%
Popped-Up Grout Joint	none	none	none	none	5%
Cracked Grout Joint	none	none	none	none	5%
Powdered Grout Joint	none	none	none	none	5%

## c.) Steel Wheels

Cycle Number:		9	10	11	12	13	14
Total Weight per Wheel (lbs):		50	100	150	200	250	300
Cycle Duration, (min)		30	30	30	30	30	30
Total No. of Revolution:		450	450	450	450	450	450
D . 4 + :	Intl Deflection	.000	009	019	027	027	027
Deflection Movement	Start of Cycle	009 +.009	021023	033010	034011	034011	034011
	End of Cycle	.000	014	027	028	028	028

Maximum Allowable

Record of Damage:

Damage

Chipped Tile	none	none	none	none	none	none	5%
Broken Tile	none	none	none	none	none	none	3%
Loose Tile	none	none	none	none	none	none	3%
Popped-Up Grout Joint	none	none	none	none	none	none	5%
Cracked Grout Joint	none	none	none	none	none	none	5%
Powdered Grout Joint	none	none	none	none	none	none	5%

With these results, the floor system can be classified as **HEAVY INDUSTRIAL** (passing 1 to 14th cycle) as per TCA Installation Handboook.

Remarks:

Since this is a simulated 2nd floor 3/4" EGP Plywood installation, concern about real application such as Heavy Equipment (forklift) usage might not produce the same results. Smith-Emery is limited to the results of the tested

Respectfully Submitted,

SMITH - EMERY LABORATOR

Registered Civil Engineer No.: C603

Registration Expires: 6-30-06

Materials Tested Comply With Specifications. ☐ Materials Tested Did Not Comply With Specifications.

□ No Established Criteria for Acceptable Limits.

☐ For Information Purposes Only

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