



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

Project No : 37139-1
Lab. No : T-07-229

November 16, 2007

Client: GREG FILLO
BEDROSIANS
1515 E. WINSTON ROAD
ANAHEIM, CA 92805-6445

Subject: **TCR P50 IVO 20" x 20" Floor Tile Ivory Porcelain**
Specification : ASTM C 373
Source : Submitted to Smith-Emery Laboratories by Client November 9, 2007
Date Tested: November 15, 2007

Report of Test

Water Absorption Test (ASTM C 373)

Samples were dried to a constant weight in an oven at 150 °C, then cooled and weighed. Then were immersed in distilled water (boiling vigorously for 5 hours before cooling gradually to a total elapsed time of 29 hours). Samples were removed from water, wiped dry and immediately reweighed.

Sample No.	Dry Wt. (grams)	Wet Wt. (grams)	Percent Water Absorption	Average
1	343.0	343.3	0.06%	
2	335.4	335.6	0.05%	
3	343.0	343.3	0.07%	<u>0.06%</u>
4	341.3	341.5	0.04%	
5	340.4	340.7	0.09%	


Requirements : ANSI A 137.1 (General) - When tested as described in ASTM C 373, the tile in the sample shall be impervious for porcelain paver tile and shall be impervious, vitreous or semi-vitreous for natural clay paver tile

- Impervious Tile (0.5% or less Wtr Abs)
- Vitreous Tile (0.5%-3.0% Wtr Abs)
- Semi-Vitreous Tile (3.0%-7.0% Wtr Abs)
- Unglazed Quarry Tile (Max 5.0% Wtr Abs)

Remarks : Samples tested comply with the Impervious Tile Requirement

Respectfully Submitted,

SMITH - EMERY LABORATORIES


P. John Latiolait
Registered Civil Engineer No. C60312
Registration Expires: 06-30-08



- Materials Tested Comply With Specifications.
- Materials Tested Did Not Comply With Specifications.
- No Established Criteria For Acceptable Limits.

JLM

CC: BEDROSIANS; SMITH-EMERY LABORATORIES



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ANAHEIM, CA 92805-6445

Subject: **TCR P50 IVO 20" x 20" Floor Tile Ivory Porcelain**
Specification: CTI Stain Test (CTI-T-72)
Source : Submitted to Smith-Emery Laboratories by Client November 9, 2007.
Date Tested: November 13, 2007

Report of Tests

CERAMIC TILE INSTITUTE STAIN TEST (CTI-T-72)


Procedure

The following stain materials (common household products) were applied to the surface of the tile, with one area covered and a second area uncovered. The stain materials was in contact with the tile surface for 24 hours, then cleaned using Ajax Industrial Cleanser, 3M nylon scrubber and water. Test results are as follows:

<i>Staining Materials</i>	<i>Exposed Time (Hours)</i>	<i>OBSERVATIONS</i>	
		<i>Uncovered</i>	<i>Covered</i>
Coca Cola	24	No Stain	No Stain
Lemon Juice	24	No Stain	No Stain
Mustard	24	No Stain	No Stain
Bacon Grease	24	No Stain	No Stain
Catsup	24	No Stain	No Stain
Wesson Oil	24	No Stain	No Stain

Respectfully Submitted,

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P. John Latiolait
Registered Civil Engineer No C60312
Registration Expires: 06-30-08

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- Materials Tested Comply With Specifications.
- Materials Tested Did Not Comply With Specifications.
- No Established Criteria For Acceptable Limits.

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