

**TCA TEST REPORT NUMBER:** TCA-145-04**PAGE:** 1 OF 1**TEST REQUESTED BY:** MG Distribution, Inc.  
Attn: Tom McNiff  
6 Brookland Drive  
Cartersville, GA 30120**TEST SUBJECT MATERIAL:** Identified by client as: Coated**TEST DATE:** 6/10/04-6/11/04**TEST PROCEDURE:** ASTM C1027: "Standard Test Method for Determining Visible Abrasion Resistance of Glazed Ceramic Tile"  
-4 x 4 inch specimens were cut from individual tiles.  
-A Gabbrielli Abrasimeter W1 was used to abrade the tile.  
-10% Hydrochloric acid was used to remove any metal oxide staining.**TEST RESULTS:** There was an apparent visual difference in gloss or color after **6000** revolutions when viewed in the viewing box by more than one technician. Thus, in accordance with the test procedure, the subject tile is given a **Class 4** rating.

Signature

Date

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-4 x 4 inch specimens were cut from individual tiles.  
-A Gabbrielli Abrasimeter W1 was used to abrade the tile.  
-10% Hydrochloric acid was used to remove any metal oxide staining.**TEST RESULTS:** There was an apparent visual difference in gloss or color after **2100** revolutions when viewed in the viewing box by more than one technician. Thus, in accordance with the test procedure, the subject tile is given a **Class 4** rating.\_\_\_\_\_  
Signature\_\_\_\_\_  
Date



Tile Council of America, Inc.

# PRODUCT TESTING SERVICE

100 Clemson Research Blvd. • Anderson, SC 29625 • TEL (864) 646-TILE • FAX (864) 646-2821

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**TEST REQUESTED BY:** MG Distribution, Inc.  
Attn: Tom McNiff  
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**TEST SUBJECT MATERIAL:** Identified by client as: Coated

**TEST DATE:** 6/7/04

**TEST PROCEDURE:** Mohs' Scratch Hardness  
-Three whole tiles were tested.

**TEST RESULTS:** The Mohs' Scratch Hardness was determined to be: 6. (The Mohs' Scratch Hardness Scale runs from 1-talc to 10-diamond.)

Signature

Date

Testing Services: [testing@tileusa.com](mailto:testing@tileusa.com) • Technical questions: [technical@tileusa.com](mailto:technical@tileusa.com) • Website: [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 TCA. This report shall not be published in any form without the prior written consent of TCA.



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TEST SUBJECT MATERIAL: Identified by client as: Coated

TEST DATE: 6/8/04-6/9/04

TEST PROCEDURE: ASTM C1028: "Standard Test Method for Determining the Static Coefficient of Friction of Ceramic Tile and Other Like Surfaces by the Horizontal Dynamometer Pull-Meter Method"  
-A Chatillon DFIS 100 digital force gauge was used to measure each pull in pounds-force.  
-A 3 x 3 x 1/8 inch piece of Neolite was used as the sensor.  
-Internal calibration used in lieu of dry calibration factor.

TEST RESULTS: The average static coefficient of friction of four (4) pulls on each tile was as follows:

	<u>As Received</u>	<u>After Cleaning</u>
Tile 1: <u>Dry:</u>	<b><u>0.94</u></b>	<b><u>0.94</u></b>
<u>Wet:</u>	<b><u>1.30</u></b>	<b><u>1.33</u></b>
Tile 2: <u>Dry:</u>	<b><u>1.04</u></b>	<b><u>1.02</u></b>
<u>Wet:</u>	<b><u>1.35</u></b>	<b><u>1.25</u></b>
Tile 3: <u>Dry:</u>	<b><u>1.00</u></b>	<b><u>1.04</u></b>
<u>Wet:</u>	<b><u>1.29</u></b>	<b><u>1.29</u></b>

The average static coefficient of friction of twelve (12) pulls was as follows:

<u>Dry:</u>	<b><u>0.99</u></b>	<b><u>1.00</u></b>
<u>Wet:</u>	<b><u>1.31</u></b>	<b><u>1.29</u></b>



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-Internal calibration used in lieu of dry calibration factor.

TEST RESULTS: The average static coefficient of friction of four (4) pulls on each tile was as follows:

	<u>As Received</u>	<u>After Cleaning</u>
Tile 1: <u>Dry:</u>	<b><u>0.84</u></b>	<b><u>0.73</u></b>
<u>Wet:</u>	<b><u>0.44</u></b>	<b><u>0.43</u></b>
Tile 2: <u>Dry:</u>	<b><u>0.87</u></b>	<b><u>0.80</u></b>
<u>Wet:</u>	<b><u>0.40</u></b>	<b><u>0.39</u></b>
Tile 3: <u>Dry:</u>	<b><u>0.80</u></b>	<b><u>0.76</u></b>
<u>Wet:</u>	<b><u>0.41</u></b>	<b><u>0.39</u></b>

The average static coefficient of friction of twelve (12) pulls was as follows:

<u>Dry:</u>	<b><u>0.84</u></b>	<b><u>0.76</u></b>
<u>Wet:</u>	<b><u>0.42</u></b>	<b><u>0.40</u></b>



Signature

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