



TEST REPORT

REPORT NUMBER: 101908315MID-001
ORIGINAL ISSUE DATE: November 25, 2014
REVISED DATE: NA

EVALUATION CENTER
Intertek
8431 Murphy Drive
Middleton, WI 53562

RENDERED TO
Eterna Tile, Inc.
111 Briny Avenue
Pompano Beach, FL 33062
Carmen Bellavia
carmen.pres@eternatile.com

PRODUCT EVALUATED: Eterna Tile Inc. 3-lbs foam @ 50-55 mils proprietary coating
EVALUATION PROPERTY:ASTM C 1371-04a (reapproved 2010), ASTM C1549-09 and ASTM E1980-11

Report of Testing Eterna Tile Inc. 3-lbs foam @ 50-55 mils proprietary coating for compliance with the applicable requirements of the following criteria: ASTM C1371-04a (reapproved 2010) Standard Test Method for Determination of Emittance of Material Near Room Temperature Using Portable Emisometers, ASTM C1549-09 Standard Test Method for Determination of Solar Reflectance Near Ambient Temperatures Using a Portable Solar Reflectometer. ASTM E1980-11 Standard Practice for Calculating Solar Reflectance Index of Horizontal and Low-Sloped Opaque Surfaces.

"This report is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this report. Only the Client is authorized to permit copying or distribution of this report and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test results in this report are relevant only to the sample tested. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program."



1 Table of Contents

1	TABLE OF CONTENTS	2
2	INTRODUCTION.....	3
3	TEST SAMPLES	3
3.1.	SAMPLE SELECTION.....	3
3.2.	SAMPLE AND ASSEMBLY DESCRIPTION	3
4	TESTING AND EVALUATION METHODS	3
4.1.	TEST STANDARDS	3
4.1.1.	DEVIATION FROM STANDARD METHOD	3
5	TESTING AND EVALUATION RESULTS	4
5.1.	RESULTS AND OBSERVATIONS.....	4
5.2.	EXAMINATION OF RESULTS.....	4
6	CONCLUSION	5

2 Introduction

Intertek has conducted testing for Eterna Tile, Inc. on Eterna Tile Inc. 3-lbs foam @ 50-55 mils proprietary coating to calculate the Solar Reflectance Index (SRI) at standard conditions. Testing was conducted in accordance with ASTM C1371-04a (reapproved 2010) Standard Test Method for Determination of Emittance of Material Near Room Temperature Using Portable Emissometers, ASTM C1549-09 Standard Test Method for Determination of Solar Reflectance Near Ambient Temperatures Using a Portable Solar Reflectometer; and ASTM E1980-11 Standard Practice for Calculating Solar Reflectance Index of Horizontal and Low-Sloped Opaque Surfaces. This evaluation began November 25, 2014 and was completed November 25, 2014.

3 Test Samples

3.1. SAMPLE SELECTION

Samples were submitted to Intertek directly from the client. Samples were not independently selected for testing. Samples were received at the Evaluation Center on November 14, 2014 in good condition.

3.2. SAMPLE AND ASSEMBLY DESCRIPTION

Eterna Tile Inc. 3-lbs foam @ 50-55 mils proprietary coating

The client provided three coated rake tiles approximately 21 inches by 5.25 inches. No weathering or aging was performed.

4 Testing and Evaluation Methods

4.1. TEST STANDARDS

ASTM C1371-04a (reapproved 2010) Standard Test Method for Determination of Emittance of Material Near Room Temperature Using Portable Emissometers was used to determine the thermal emissivity and ASTM C1549-09 Standard Test Method for Determination of Solar Reflectance Near Ambient Temperatures Using a Portable Solar Reflectometer.

Using the solar reflectance and thermal emissivity of the specimen surface, the SRI is calculated on three convective coefficients of 5, 12, 30 $W \cdot m^{-2} \cdot K^{-1}$, corresponding to low-, medium-, and high-wind conditions, respectively.

4.1.1. Deviation from Standard Method

No deviations to the test standards

5 Testing and Evaluation Results

5.1. RESULTS AND OBSERVATIONS

The room temperature was 23.6 °C with a Relative Humidity of 36%

ASTM C1371-04a (Reapproved 2010) Results

Sample	Trial 1	Trial 2	Trial 3	Average
1	0.79	0.80	0.70	0.76
2	0.83	0.72	0.66	0.74
3	0.80	0.78	0.75	0.78
			Total Average	0.76

ASTM C1549-09 Results:

Sample	Trial 1	Trial 2	Trial 3	Average
1	0.412	0.417	0.426	0.418
2	0.436	0.424	0.434	0.431
3	0.429	0.418	0.425	0.424
			Total Average	0.425

5.2. EXAMINATION OF RESULTS

Reported is the solar reflectance and thermal emittance of the test surface and the calculated SRI and the SRI calculated for three convective coefficients of 5, 12, 30 $W \cdot m^{-2} \cdot K^{-1}$, corresponding to low-, medium-, and high-wind conditions, respectively.

ASTM E1980-11 Solar Reflectance Index (SRI) Results

Convective Coefficient	SRI
Low	38
Medium	43
High	46

6 Conclusion

Intertek has conducted testing for Eterna Tile, Inc. on Eterna Tile Inc. 3-lbs foam @ 50-55 mils proprietary coating to calculate the Solar Reflectance Index (SRI) at standard conditions. Testing was conducted in accordance with ASTM C1371-04a (reapproved 2010) Standard Test Method for Determination of Emittance of Material Near Room Temperature Using Portable Emissometers, ASTM C1549-09 Standard Test Method for Determination of Solar Reflectance Near Ambient Temperatures Using a Portable Solar Reflectometer; ASTM E1980-11 Standard Practice for Calculating Solar Reflectance Index of Horizontal and Low-Sloped Opaque Surfaces.

The SRI using the medium convective coefficient for Eterna Tile Inc. 3-lbs foam @ 50-55 mils proprietary coating is 43.

There is no pass fail criteria specified.

The conclusions of this test report may not be used as part of the requirements for Intertek product certification. Authority to Mark must be issued for a product to become certified.

INTERTEK



Reported by: _____
Sandy Osborne
Lab Technician II, Verification Center



Reviewed by: _____
Bryan Bowman
Chemist, Verification Center

REVISION SUMMARY

DATE	SUMMARY
November 25, 2014	Original Report
