



# ASPHALT TECHNOLOGIES

## Laboratory Report

**Report for:** Uni-Glaze  
17927 Ida Drive  
Los Gatos, CA 95033

**Date:** February 4, 2004

**Attention:** Chris Fisher

**Purpose:** The purpose of this testing was to determine the solar reflectance and emittance properties of two coatings.

**Materials:** The samples for testing were received from Uni-Glaze on January 30, 2004. The samples were labeled as follows:

1. Thermotex : Batches: THX00761-US-1 and 2

**Test Methods:** The test methods used included ASTM C 1549: *Standard Test Method for Determination of Solar Reflectance Near Ambient Temperature Using a Portable Reflectometer* and ASTM C 1371: *Standard Test Method for Determination of Emittance of Materials Near Room Temperature Using Portable Emittance Meters*. Both of these methods are Cool Roof Rating Council (CRRC) accepted methods for determining these properties.

UNIG-002-02-01

PRI Accreditations: IAS-ES TL-189; State of Florida; Metro-Dade 03-0515.04; CRRC

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**Results of Testing:** All measurements were conducted at laboratory conditions of  $23 \pm 2^\circ\text{C}$  and  $50 \pm 5$  percent relative humidity. The testing was conducted on February 4, 2004.

**Reflectance**


Material ID	ASTM Test Method	Result, Solar Reflectance, Air Mass = 1.5					
Specimen No.		1	2	3	Avg.	SD	95% CI
Thermotex US-1	C 1549	86.4	86.3	86.4	86.4	0.059	0.146
Thermotex US-2	C 1549	85.8	85.7	85.9	85.8	0.101	0.252

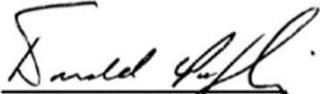
Note: Reflectance measurements were conducted using a Devices and Services SSR-ER Version 5.0 reflectometer calibrated with Devices and Services Reference Standard: 0.807.  
 SD = Standard Deviation, 95% CI = 95% Confidence Interval

**Emittance**

Material ID	ASTM Test Method		Emittance, $\epsilon$					
Specimen No.		Thickness, in	1	2	3	Avg.	SD	95% CI
Thermotex US-1	C 1371	0.020	0.87	0.88	0.88	0.88	0.006	0.014
Thermotex US-2	C 1371	0.020	0.87	0.88	0.87	0.87	0.006	0.014

Note: Emittance measurements were conducted using a Devices and Services Emissometer Model AE calibrated with Devices and Services Reference Standards: High Emittance: 0.90 and Low Emittance: 0.06.  
 Room Temperature: 25.0°C

Signed:   
 Brian Bruns  
 Laboratory Technician

Approved:   
 Donald C. Portfolio  
 Vice - President

Date: 2/4/2004

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