CONSTRUCTION MATERIALS

TECHNOLOGIES

LABORATORY TEST RESULTS

Report for: Acrypave Manufacturing
5696 CR 1143
Tyler, TX 75704

Attention: Lea Kastmo

Description(s): one (1) sample of coating	**Manufacturer:** Acrypave Manufacturing
Date Received: Feb. 4, 2013	**Source:** Acrypave Manufacturing
PRI-CMT Project No.: ACPM-001-02-01	**Test Date(s):** Feb. 4, 2013

Purpose: The purpose of this testing was to determine the solar reflectance, thermal emittance, and solar reflectance index value for one (1) sample of coating.

Materials: The sample for testing was received from Acrypave Manufacturing.

Test Methods: The test methods used included ASTM C 1549-09: *Standard Test Method for Determination of Solar Reflectance Near Ambient Temperature Using a Portable Reflectometer* and ASTM C 1371-04a(2010)$^{\varepsilon 1}$: *Standard Test Method for Determination of Emittance of Materials Near Room Temperature Using Portable Emissometers.* Both of these methods are Energy Star, Leadership in Energy and Environmental Design (LEED), and Cool Roof Rating Council (CRRC) approved methods for determining radiative properties.

The solar reflectance index (SRI) was calculated in compliance with ASTM E 1980-11: *Standard Practice for Calculating Solar Reflectance Index of Horizontal and Low-Sloped Opaque Surfaces.*

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Results: All measurements were conducted at 72±3°F and 50±5%RH.

Sample ID	Solar Reflectance ASTM C 1549[1]		Thermal Emittance ASTM C 1371[2]		SRI ASTM E 1980[3]		
	Avg.	Std.Dev.	Avg.	Std.Dev.	Low-Wind	Medium-Wind	High-Wind
coating	0.343	0.002	0.93	0.00	39	39	39

Note(s):
1- Reflectance measurements were conducted using a Devices and Services SSR-ER Version 6.4 Reflectometer operated in v5 emulation mode and calibrated with Devices and Services Reference Tile # D-18.
2- 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.
3- SRI calculations per ASTM E 1980 utilize the following assumptions: Low-Wind $h_c = 5$ W/m^2·K, Medium-Wind $h_c = 12$ W/m^2·K, and High-Wind $h_c = 30$ W/m^2·K.

Statement of Attestation: The Solar Reflectance Index of these samples was calculated in accordance with **ASTM E 1980:** ***Standard Practice for Calculating Solar Reflectance Index of Horizontal and Low-Sloped Opaque Surfaces***. The laboratory test results presented in this report are representative of the material supplied.

Signed: _____

Brad Grzybowski
Managing Director

Date: February 4, 2013

Report Issue History:

Issue #	Date	Pages	Revision Description (if applicable)
Original	02/04/2013	2	NA

END OF REPORT