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THE ULTIMATE COATINGS COMPANY

Report No.: 38519-1
 Order No.: AE38519
 Client Reference: Quote #: 58267656072418
 Date: August 21, 2018
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**HEMISPHERICAL SPECTRAL REFLECTANCE
 TEST REPORT**

3.0 OBSERVATIONS, DEVIATIONS, AND WAIVERS

Measurements were made on the coated side of the specimens.

With all test methods, there typically is a level of uncertainty for the test data due to the acceptable operating tolerances of the instrumentation and variation caused by the test method. The estimated tolerances are expected to be less than plus or minus 2% for most materials tested to ASTM E903.

CAUTION: ASTM Test Method E903, paragraph 5.4 clearly states “this test method has been found practical for smooth materials... Materials that are textured, inhomogeneous, patterned, or corrugated require special consideration”. In that, the specimen exhibits inhomogeneities, and the client is cautioned when utilizing the reported measurements.

4.0 RESULTS

Specimen Code	% Solar Reflectance
1. Thermo-seal 1500 Sydney Coffee	69.5
2. Thermo-seal 1500 Kalgoorlie Gold	54.0
3. Thermo-seal 1500 Gum Tree Green	47.5
6. Thermo-seal 1500 Brickland V.2	48.7
7. Eco-Therm Elastomeric 2500 Sand Dune	60.0
8. Eco-Therm Elastomeric 2500 Grey	74.5
9. Eco-Therm Elastomeric 2500 Tan	54.4

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**HEMISPHERICAL SPECTRAL REFLECTANCE
TEST REPORT****1.0 INTRODUCTION**

This report presents results of spectral reflectance on the following seven painted specimens coded:

1. Thermo-seal 1500 Sydney Coffee
2. Thermo-seal 1500 Kalgoorlie Gold
3. Thermo-seal 1500 Gum Tree Green
6. Thermo-seal 1500 Brickland V.2
7. Eco-Therm Elastomeric 2500 Sand Dune
8. Eco-Therm Elastomeric 2500 Grey
9. Eco-Therm Elastomeric 2500 Tan

2.0 TEST METHODS AND PROCEDURES

Hemispherical spectral reflectance measurements were performed in accordance with ASTM Standard Test Method E903. The measurements were performed with a PerkinElmer Lambda 950 Spectrophotometer utilizing an integrating sphere (Fig X1.3 of E903). Total reflectance measurements were obtained in the solar spectrum from 2500nm to 250nm at an incident angle of 8°. The measurements employ a detector-baffled, wall-mounted integrating sphere that precludes the necessity of employing a reference standard except to define the instrument's 100% line. The measurements are properly denoted as being 'hemispherical spectral reflectance'.

Total Solar reflectance was obtained by integrating the spectral data against Air Mass 1.5 direct (ASTM G159) solar spectrum utilizing 105 weighted ordinates. All spectral data are submitted herewith in the original.

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**HEMISPHERICAL SPECTRAL REFLECTANCE
TEST REPORT**

prepared for:

THE ULTIMATE COATINGS COMPANY

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presented by:

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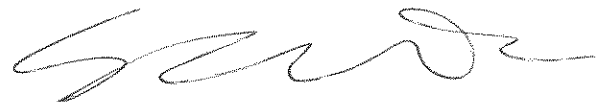
This report contains 3 pages

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