



TEST REPORT

Initial CRRC Measurements

Product Identification: "Cool Running – Cool Roof"

Prepared For:

SINA E&S
79, Haeryongsandan 5-ro, Haeryong-myeon,
Suncheon-si, Jeollanam-do,
Korea (58022)



TEST REPORT NUMBER: RD21743

DATE OF REPORT: August 2, 2021



A handwritten signature in black ink, appearing to read 'Stuart Ruis', written over a horizontal line.

Stuart Ruis
President

R & D Services, Inc.
209 Tennessee Blvd.
P.O. Box 163
Watertown, Tennessee 37184
USA

The test results in this report apply only to the specimens tested. This report shall not be reproduced, except in full, without written approval of R & D Services, Inc. This report must not be used by the client to claim product endorsement by R & D Services, Inc., IAS, or any other organization.



209 Tennessee Blvd.
Watertown, Tennessee 37184
Phone: 931-372-8871
Fax: 931-525-3896
www.rdservices.com

TEST REPORT PREPARED FOR
SINA E&S
DATE OF TESTS
July 16 – 21, 2021
R&D SERVICES SPECIMEN IDENTIFICATION
2123210702-1,2
MANUFACTURE DATE OF SPECIMENS
Unknown

SAMPLE IDENTIFICATION

Eco-friendly water-soluble heat-resistant paint produced by using a high-durable acrylic silicon emulsion resin and high light reflectance identified as “Cool Running – Cool Roof (CR-1000) Batch A and B”.

SAMPLING INFORMATION

The test material was manufactured and sampled by the client. The material was received by R&D Services, Inc. in Watertown, TN on July 2, 2021. No evidence of sampling was provided.

TEST METHODS

ASTM C1371-15, “Standard Test Method for Determination of Emittance of Materials near Room Temperature Using Portable Emissometers”

ASTM C1549-16, “Standard Test Method for Determination of Solar Reflectance Near Ambient Temperature Using a Portable Solar Reflectometer”

ASTM D751-19, Sections 7 – 10, “Standard Test Methods for Coated Fabrics”

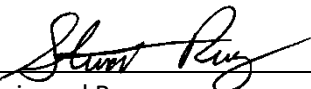
TEST RESULTS

Test Temperature: 69 °F
Test Humidity: 50 %RH



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Specimen ID	Customer ID	Thickness (mils)	Thermal Emittance	Solar Reflectance
2123210702-1	Batch A	4.2	0.86	0.88
2123210702-1	Batch A	3.5	0.86	0.88
2123210702-1	Batch A	4.1	0.86	0.88
2123210702-1	Batch A	4.3	0.86	0.88
2123210702-1	Batch A	4.1	0.86	0.88
2123210702-2	Batch B	4.3	0.86	0.88
2123210702-2	Batch B	4.4	0.86	0.87
2123210702-2	Batch B	4.0	0.86	0.89
2123210702-2	Batch B	3.7	0.86	0.87
Averages:			0.86	0.88


Reviewed By:

August 2, 2021
Date: