

ULR-TC70202300000023F

Report No: CRDF/RPT/SRI/726

Report Date: 20th March 2023**Report of test carried out by CEPT Research & Development Foundation for Solar Reflectance Index of Supplied Material**The test results of the specimen submitted for Solar Reflectance Index on date 24th February 2023 are as under:**1. Customer Information**

- i. **Name of the Organization** : M/s. Master Builders Solutions India Private Limited
- ii. **Contact Person** : Anand Gharat
- iii. **Address** : Master Builders Technology Centre,
D-126, Shiranvane MIDC, Nerul
Navi Mumbai, Maharashtra - 400706
- iv. **Phone Numbers** : 7506291340
- v. **Fax Number** : Not Applicable
- vi. **Email** : anand.gharat@mbcc-group.com

2. Photometry Testing**2.1 Glazing Materials****2.1.1. Sample Details**

- i. **Sample Identification Number** : SRI/03/23/1727
- ii. **Date of Test** : 17th March 2023
- iii. **Name and any other pertinent Identification of the material** : MasterSeal 379
- iv. **Thickness of the specimen (As declared by customer)** : 4.5mm (4mm Cement Board + 0.5mm Coating)
- v. **Thickness as tested** : Not Applicable
- vi. **Condition of Sample when received** : Satisfactory
- vii. **Method and Environment used for Conditioning (if used)** : Not Applicable
- viii. **Condition used for laboratory soiling And weathering (if used)** : Not Applicable
- ix. **Description of soiling mixture (If laboratory soiling and Weathering used)** : Not Applicable
- x. **Instrument used** : Spectrophotometer with integrating sphere with reference material Spectralone & FTIR with IR specular reflection set.
- xi. **Environmental Conditions maintained during the test** : Temperature 24.9°C and Humidity 35% Rh
- xii. **Boundary Conditions (Test Method)** : ASTM E 1980, BS EN 12898, EN 673 and EN 410

N.D. Bhesaniya
Analyzed By:
Nikhil Bhesaniya
Lab. Technician

Yashkumar Shukla
Reviewed By:
Yashkumar Shukla
Technical Director



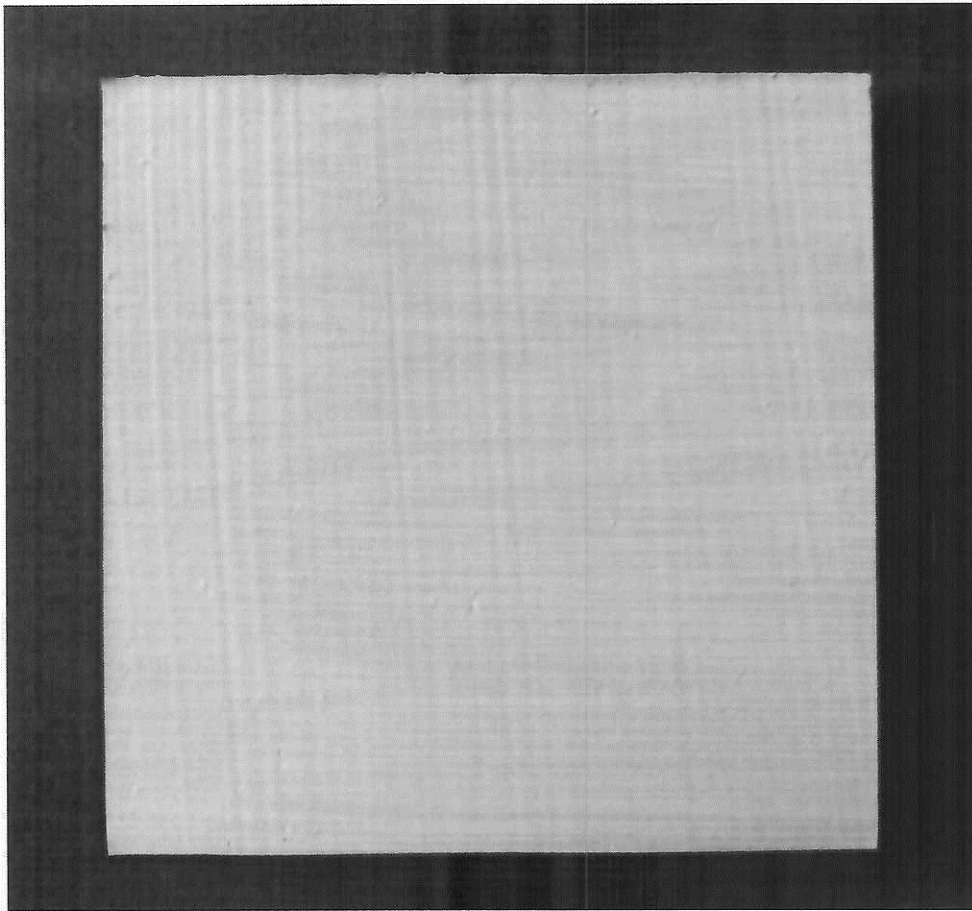
Yashkumar Shukla
Authorized By:
Yashkumar Shukla
Technical Director

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3. Photograph of the specimen.



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4 Results of the measurement:

Solar Direct Reflectance

Sample name	Sample ID	Measurement 1	Measurement 2	Measurement 3	Average
MasterSeal 379	SRI/03/23/1727	0.7820	0.7816	0.7829	0.7822

Emissivity

Sample name	Sample ID	Measurement 1	Measurement 2	Measurement 3	Average
MasterSeal 379	SRI/03/23/1727	0.924	0.920	0.922	0.922

Solar Reflectance Index (SRI) under different wind conditions

Sample name	Sample ID	Solar Reflectance Index (SRI)		
		Low Wind($h_c=5 \text{ W m}^{-2} \text{ K}^{-1}$)	Medium Wind($h_c=12 \text{ W m}^{-2} \text{ K}^{-1}$)	High Wind($h_c=30 \text{ W m}^{-2} \text{ K}^{-1}$)
MasterSeal 379	SRI/03/23/1727	98	98	98

Surface Temperature (T_s) under different wind conditions

Sample name	Sample ID	Surface Temperature ($^{\circ}\text{C}$)		
		Low Wind($h_c=5 \text{ W m}^{-2} \text{ K}^{-1}$)	Medium Wind($h_c=12 \text{ W m}^{-2} \text{ K}^{-1}$)	High Wind($h_c=30 \text{ W m}^{-2} \text{ K}^{-1}$)
MasterSeal 379	SRI/03/23/1727	50.4	45.4	41.2

Remark, if Any:

5 Certificate of Accuracy:

This is to certify that the test results herein presented are, to the best of my knowledge, true and accurate representations of the samples submitted.

N.D. Bhesaniya
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Nikhil Bhesaniya
Lab. Technician

Yashkumar Shukla
Reviewed By:
Yashkumar Shukla
Technical Director



Yashkumar Shukla
Authorized By:
Yashkumar Shukla
Technical Director

Disclaimer:

1. The CEPT Research & Development Foundation is not responsible for any kind of alterations in the physical property of the sample and the customer is solely responsible for it and its consequences.
2. The test results and the statement of compliance with specification in this report relate only to the test sample as tested and not to the sample/item from which the test sample was drawn. Sample will be destroyed after 7 days of issue of the report unless specified by the customer.
3. Any complains about this report should be communicated in writing within 7 days of issue of the report.
4. The test report shall not be reproduced fully or partially or in parts and cannot be used as an evidence in a court of law and shall be used in advertising media without written approval of Director, CEPT Research & Development Foundation.