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| <br>GOVERNMENT OF DUBAI | <b>Organization/Unit:</b><br>إدارة مختبر دبي المركزي<br>Dubai Central Laboratory Department | الوحدة التنظيمية: | <br>بلدية دبي<br>DUBAI MUNICIPALITY |
|   | <b>Document Title:</b><br>TEST REPORT<br>SOLAR REFLECTANCE INDEX (SRI) OF<br>MATERIALS      | عنوان الوثيقة:    |  |
|   | <b>Doc. Ref. :</b><br>DM-DCLD-F-CM-0100   | رقم الوثيقة:      |  |

**CONSTRUCTION MATERIAL LABORATORY SECTION  
GREEN BUILDING PRODUCT UNIT**

|  |   |                                       |                    |
|--|---|---------------------------------------|--------------------|
| <b>Report No:</b>                                  | 547760  | <b>Request No:</b>                    | EMTX-2022-1056638  |
| <b>Project No:</b>                                 | BP-2022-947   | <b>Report Date:</b>                   | 18/01/2023 02:20PM |
| <b>Project Name:</b>                               | TESTING SERVICE FOR OPTIMUS INC                         |                                       |                    |
| <b>Consultant:</b>                                 | Optimus Inc   |                                       |                    |
| <b>Contractor:</b>                                 | OPTIMUS E C O PAINTS TRADING L.L.C                      |                                       |                    |
| <b>Location: *</b>                                 | warehouse   |                                       |                    |
| <b>Source: *</b>                                   | NOT GIVEN   |                                       |                    |
| <b>Sample Description: *</b>                       | PAINT   |                                       |                    |
| <b>Product Name: *</b>                             | Water-based heat shield / insulation paint HYDRO THERMO |                                       |                    |
| <b>Sampling Date/Time: *</b>                       | 12/12/2022 10:00AM                                      | <b>Lot/Batch/Coil/Heat No.*</b>       | -                  |
| <b>Receiving Date/Time:</b>                        | 16/01/2023 01:13PM                                      | <b>Lot Size: *</b>                    | NA                 |
| <b>Sample Size /Quantity:</b>                      | 500 gram  | <b>Sender No:</b>                     | HYDRO THERMO       |
| <b>Material/Mix Type: *</b>                        | Paint   | <b>Laying Date/Production Date: *</b> | NA                 |
| <b>Nominal Size / Working Block Size (mm) : NA</b> |   |                                       |                    |

**TEST RESULTS**

| PARAMETER  | RESULTS                  |
|--|--------------------------|
| SURFACE TEXTURE  | SMOOTH                   |
| SPECIMEN THICKNESS (mm)                                    | NG                       |
| TEST CONDITION   | 23+/-2Degree, 50+/-5% RH |
| SPECIMEN NO.   | 1, 2, 3                  |
| Solar Reflectance (%) as per ASTM C 1549                   | 93.6                     |
| Emittance (e) As Per ASTM C1371                            | 0.80                     |
| Standard Deviation of Reflectance                          | 0.0010                   |
| Standard Deviation of Emittance                            | 0.0015                   |
| Solar Reflectance Index (SRI) for Low Wind (0 to 2 m/s)    | 117.66                   |
| Solar Reflectance Index (SRI) for Medium Wind (2 to 6 m/s) | 117.85                   |
| Solar Reflectance Index (SRI) for High Wind (6 to 10 m/s)  | 118.02                   |



|                            |                       |                               |                    |
|----------------------------|-----------------------|-------------------------------|--------------------|
| <b>Sampled By:</b>         | CLIENT REPRESENTATIVE | <b>Tested By:</b>             | NIMIAH             |
| <b>Sampled Brought By:</b> | CLIENT REPRESENTATIVE | <b>Testing Date:</b>          | 16/01/2023 01:13PM |
| <b>Sampling Method:</b>    | NOT GIVEN             | <b>Sampling Report No:</b>    | NA                 |
| <b>Test Method:</b>        | ASTM E1980-11(2019)   | <b>Test Method Variation:</b> | NIL                |

|                 |   |
|-----------------|---|
| <b>Remarks:</b> | CUSTOMER PERFORMED SAMPLING AND PROVIDED THE SAMPLE; THE RESULTS APPLY ONLY TO THE SAMPLE AS RECEIVED AND TESTED. - SOLAR REFLECTANCE MEASURED UNDER THE AIR MASS 1.5 |
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**CONSTRUCTION MATERIAL LABORATORY SECTION  
GREEN BUILDING PRODUCT UNIT**

|                   |        |                                      |
|-------------------|--------|--------------------------------------|
| <b>Report No:</b> | 547760 | <b>Request No:</b> EMTX-2022-1056638 |
|-------------------|--------|--------------------------------------|

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