



Ref. No.: QC-ES023-22

CERTIFICATE OF ANALYSIS

SYNROOF HB-WHITE

We hereby certify that the information given below is the result of tests carried out on two (2) samples of SYNROOF HB WHITE Acrylic Waterproof Coating manufactured in our Dammam factory on 15.12.2021 under the production batch no. 81001541, 81001542, 81001543 and tested in our QC lab in accordance with ISO 9001:2015.

<u>S. No.</u>	<u>Characteristics</u>	<u>Unit Measure</u>	<u>Test Method</u>	<u>Average Results</u>
1	Appearances	.....	Visual	white
2	Solid Contents	%	ASTMD-1076	64.10
3	Viscosity at 25 ⁰ C	CPS	Brookfield	59500
4	Density	Kg/L	ASTM D-1475	1.30
5	PH	.....	In – House	8.79
6	Curing Time at 25 °C	Hrs.	In – House	8
7	Tensile Strength	N/cm ²	ASTM D- 412	482
8	Percentage Elongation	%	ASTM D- 412	445
*9	Hardness	Shore A	ASTM D-2240	68
*10	Dry Peel Adhesion	Ibs/sq.in	ASTM C-297	65
11.	Permeability	.....	ASTM E -398	Pass
12.	Flexibility	.....	In House	No Cracking

*Typical

For
Bitumat Co. Ltd.
Issue date: 18.01.2022



(Quality Control Manager)

Shelf life: 12 months from date of manufacturing (if stored as per our standard storage condition).





Arab Center المركز العربي

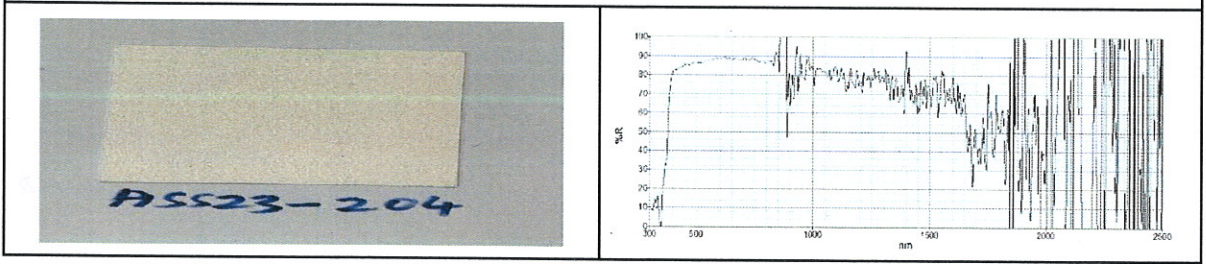
For Engineering Studies L.L.C. للدراسات الهندسية ش.ذ.م.م.

REPORT ON DETERMINATION OF SOLAR REFLECTIVE INDEX

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Client	Bitumat Company Limited	Report No.	ARS23000752
Contractor	No Specific Contractor	Date Reported	02/08/2023
Consultant	No Specific Consultant	Sample No.	ASS23000204
Project No.	N.P	Request No.	AQS23000204
Project Name	Internal Testing	Client Ref.	N.P.
Sample Desc.	Synroof-HB (Heat Resistant & Waterproofing Coating)	Sampled By	Client's Rep.
Source	Bitumat Company Limited	Sampling Date	27/07/2023
Sample Location	Bitumat Company Limited	Sampling Cert.	N.P.
Lot No.	N.P.	Sampling Method	N.P.
Lot Size	N.P.	Sample Size	3 Nos
Test Method	ASTM E 1980-11 (Reapproved 2019), ASTM E 903-20, ASTM C 1371-15	Sample Brt. In By	Client's Rep.
Test Method Variation	None	Date Received	01/08/2023
Tested By	Anas Irfan	Date Tested	02/08/2023
Remarks	Solar Reflectance was determined using UV/VIS/NIR (950 Lambda) having integrating sphere and special software from Perkin Elmer. Emissivity was determined using Emissometer		

Notes: The test result represent the submitted sample only.



Parameter		Result
Solar Direct Reflectance of Surface	(%)	88.22
Thermal Emittance of Surface		0.89
SRI for low wind condition	(convective coefficient 5)	110.74
SRI for medium wind condition	(convective coefficient 12)	110.85
SRI for high wind condition	(convective coefficient 30)	110.94



0 0 0 2 2 3 8 3 6 9 .



Eng. Harees Sulaiman
Material Department Manager

Notes: 1.The test results in this report relate only to the test sample as received and tested by the laboratory. 2.Unless otherwise stated in Remarks, all samples were received in acceptable condition. 3.This report shall not be reproduced except in full, without written approval of ACES.

Disclaimer: Unless otherwise stated, Client and project details as well as sampling and sample identification information included in this report are provided by the Client. ACES shall not be liable for any incorrect results arising from unclear, erroneous, incomplete, misleading or false information provided by the Client.

Form: RT-2175-305

- END OF REPORT -



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