



TEST REPORT ON WET SCRUB RESISTANCE

Client	Berger Paints Emirates LTD Co (LLC)		
Sample Description	Weathercoat Ultra	Lab Report No.	WD-R-250411-0511/2
Source	Berger Paints Emirates LTD CO (LLC)	Lab Request No.	WD-Q-250411-0091
Test Method	ISO 11998:2006	Sample No.	WD-S-250411-1175
Test Temperature	23°C & 50% RH	Date Received	11/04/2025
Tested Location	Wimpey-Dubai	Casting Date	18/04/2025
Coating Thickness	200 µm	Date Tested	30/04/2025
No. of Cycles	200 Cycles	Date Reported	12/05/2025
Wimpey Ref No.	250411004	Tested By	VIN

Test Results (Wet Scrub Resistance)

Area traversed by the scrub pad: 0.013m²

Test	Result	
Wet Scrub Resistance	Mean loss in thickness (µm)	1.46
	Assessment of wet scrub resistance	200 Cycles- Pass

Test Results (Cleanability)

Test	Result
Cleanability	Satisfactory

Remarks: None.

Signed for and on behalf of Wimpey Laboratories L.L.C.

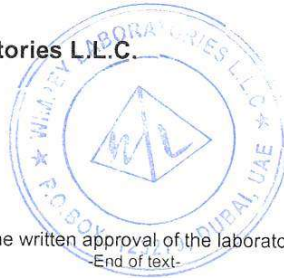

S. Sarath Kumar

Laboratory Manager

Test results relate only to the samples tested.

This report shall not be reproduced except in full, without the written approval of the laboratory.

End of text.



Test Report on Depth of Penetration of Water Under Pressure

Client	: BERGER PAINTS EMIRATES LTD CO (L.L.C)	Report No.	: WD-R-251121-0095/1
Project	: N.G	Request No.	: WD-Q-251121-0021
Product Name	: Weathercoat Ultra	Sample No.	: WD-S-251121-0416
Contractor	: N.G	Wimpey Ref. No.	: SH-056637
Consultant	: N.G	Date Test Started	: 04/12/2025
Client Reference	: N.G	Date Test Completed	: 07/12/2025
Sample id	: N.G	Date Reported	: 09/12/2025
Date of Sampling	: N.G	Sampling Method	: N/A
Sample Received Date	: 21/11/2025	Lot Size m3	: N.G
Curing / Storage (Lab)	: N.A	Lot No.	: N.G
Moisture Condition	: N.A	Slump Measure mm	: N.G
Test Method Variation	: None	Sample size mm	: N.G
Specification Strength	: N.G	Age of Coating	: N/A
Location	: In House	Duration of test	: 72Hours
Method of Surface Treatment:	N.A	Pressure Applied	: 7 Bar
Surface Treatment Done By:	Wimpey Lab	Tested by	: MAH
Test Method	: BS EN 12390-8		
Coating System	: 50 Microns DFT at 2 Coats		

Test Results

Sample Reference	Specimen 1	Specimen 2
Client's Reference	N.G	N.G
Appearance of Specimen	Good	Good
Direction of application of water pressure with respect to the casting direction	Normal	Normal
Observation of presence of water leakage on the surface of sample during test	Nil	Nil
Water Penetration Depth (Maximum) (mm)	Nil	Nil

Remarks: Sample applied on the concrete surface.

Legends: N.A. = Not applicable, N.G.= Not Given

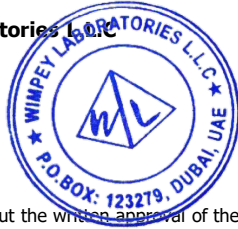
Signed for and on behalf of Wimpey Laboratories L.L.C

S.Sarath Kumar
Laboratory Manager

Test results relate only to the samples tested.

This report shall not be reproduced except in full, without the written approval of the Laboratory.

-End of text-





ميديل ايسست لخدمات الفحص ذ.م.م.
Middle East Testing Services L.L.C.

TEST REPORT

Report No.: MR-010524-140-B

Client / Establishment : M/s. Berger Paints Emirates Ltd Co. (LLC.)
Al Quoz Industrial Area-1,
Opp. TCTI Factory, PO Box: 27524
Dubai, United Arab Emirates

Sample ID : MS-010524-147
Sample Receiving Date : 01/05/2024
Reporting Date : 22/08/2024
Date of Analysis : 01/05/2024 - 21/08/2024
Tested by : JK
Issue No : 01 (Re-Issue Date: NA)

Sample Information:

Sample Description : WEATHERCOAT ULTRA

Test Result:

Water Spotting of Emulsion

Test Method: ASTM D1793-23

Test duration: 1hr after water retention + 1hr after wiping with dry cloth

Dry film thickness: 120µm

Test reagent: water

Test condition: 23°C & 50% R.H.

Parameter	Test Method	Unit	Result
Dynamic test	ASTM D1793-23	-	No significant observation (Good water spotting resistance)
Static test			No significant observation (Good water spotting resistance)

Note: No traceability details were provided by client.

Test Location: Ajman

Prepared by

Team Head
Material Science Division (MSD)
Employee Code: METS AJ EC 110



Verified by

Assistant Laboratory Manager
Employee Code: METS AJ EC 103

The above test results are only applicable to the sample (s) referred above. This report shall not be reproduced except in full, without the written approval of METS laboratory.

For further clarification of reports, please contact qc@metslab.com

-End of Report-

Form MRF 40 Issue No:2



ميديل ايسست لخدمات الفحص Middle East Testing Services

TEST REPORT

Report No.: MR-141023-083 Rev.01

Client / Establishment : M/s. Berger Paints Emirates Ltd Co. (LLC)
Al Quoz Indl Area-1, Opp TCTI factory, P O Box: 27524
Dubai, UAE

Sample ID : MS-141023-130
Sample Receiving Date : 14/10/2023
Reporting Date : 15/12/2023
Testing Date : 14/10/2023-02/11/2023
Tested by : YA
Issue No : 02 (Re-Issue Date: 09/03/2024)

Sample Information:

Sample Description : Weathercoat Ultra

Test Results:

Water transmissibility

Test Method: EN 1062-3:2008
Curing period: 7 Days

Water applied period: 24Hours
DFT: 150 μ m

Test Parameter	Unit	Result
Water transmissibility	Kg/(m ² ×h ^{0.5})	0.098

Note: (i) No traceability details were provided by the client.
(ii) Test Location: Ajman

Prepared by


Chemist

Material Science Division (MSD)
Employee Code: METS AJ EC 180

Verified by



Team Head
Material Science Division (MSD)
Employee Code: METS AJ EC 110

The above test results are only applicable to the sample (s) referred above. This report shall not be reproduced except in full, without the written approval of METS laboratory.

For further clarification of reports, please contact qc@metslab.com

-End of Report-



TEST REPORT ON WATER VAPOUR TRANSMISSION

Client Name	Berger Paints Emirates LTD Co LLC		
Sample Description	Weathercoat Ultra	Lab Report No.	WD-R-250714-0032
Source	Berger Paints Emirates	Request No	WD-Q-250714-0019
Test Method	ISO 7783:2018	Sample No.	WD-S-250714-0837
Temperature in Test Chamber	23°C	Wimpey Ref No.	250714005
Relative Humidity in Test Chamber	50%	Date Received	14/07/2025
Test Area	33.18cm ²	Date Tested	23/07/2025-26/07/2025
Total Cycles	Continues up to constant	Date Reported	26/07/2025
Method of Application	By Brush	Room Temperature	23°C
Sample Brought in by	Wimpey Lab	Room Relative Humidity	50%
Specimen Thickness	112 microns	Tested By	IJM

Test Results

Test	Unit	Specimen 1	Specimen 2	Specimen 3	Average
Water Vapor Transmission Rate	g/m ² /24hours	132.3	131.8	134.5	132.9
Water Vapour Diff. Resistance Coeff (μ value)	-	1172.5	1171.1	1173.3	1172.3
Equivalent Air layer thickness (S _d value)	m	0.1342	0.1341	0.1341	0.1341
Actual Dry Film Thickness	Microns	112	112	112	112
Water diffusion coefficient	cm ² /s	2.13 X 10 ⁻⁴	2.14 X 10 ⁻⁴	2.13 X 10 ⁻⁴	2.13 X 10 ⁻⁴
Class as per EN 1062-1	V1 - High				

Standard specification as per BS EN 1062-1:2004		
Class	Water Vapour Transmission Rate V, (g/m ² /24 hours)	Equivalent Air Layer thickness in meter, S _d Value (m)
V ₁ (High)	>150	<0.14
V ₂ (Medium)	150 to 15	0.14 to 1.4
V ₃ (Low)	<15	>1.4

Remarks: None.

Signed for and on behalf of Wimpey Laboratories LLC

S.Sarath Kumar
Laboratory Manager

Test results relate only to the samples tested.

This report shall not be reproduced except in full, without the written approval of the laboratory.

-End of text-



میدیل ایست لخدمات الفحص Middle East Testing Services



TEST REPORT

Report No.: MR-010524-140-C

Client / Establishment : M/s. Berger Paints Emirates Ltd Co. (LLC.)
Al Quoz Industrial Area-1,
Opp. TCTI Factory, PO Box: 27524
Dubai, United Arab Emirates

Sample ID : MS-010524-147
Sample Receiving Date : 01/05/2024
Reporting Date : 22/08/2024
Date of Analysis : 01/05/2024 - 21/08/2024
Tested by : JK
Issue No : 01 (Re-Issue Date: NA)

Sample Information:

Sample Description : WEATHERCOAT ULTRA

Test Result:

Determination of Water Vapor Transmission

Test Method: BSEN ISO 7783:2018

Test condition: 23°C & 50% R.H.

Dry film thickness: 120µm

Parameter	Test Method	Unit	Result	Class as per BSEN 1062-1:2004
Water Vapor Transmission Rate	BSEN ISO 7783:2018	g/m ² .d	23.12	Class V ₂ Medium
Diffusion equivalent air thickness, S _D value		m	0.88	
Water Vapour diffusion factor, µ		-	0.73 x 10 ⁴	

Classes for water vapour permeability(V)

Class	Requirement		
	V (g/m ² . D)	S _D (m)	
V ₀	No requirement		
V ₁	High	>150	<0.14
V ₂	Medium	≤150	≥0.14
V ₃	Low	>15	<1.4
		≤15	≥1.4

Note: No traceability details were provided by client.

Test Location: Ajman

Prepared by

Team Head
Material Science Division (MSD)
Employee Code: METS AJ EC 110



Verified by

Assistant Laboratory Manager
Employee Code: METS AJ EC 103

The above test results are only applicable to the sample (s) referred above. This report shall not be reproduced except in full, without the written approval of METS laboratory.

For further clarification of reports, please contact qc@metslab.com

-End of Report-

Form MRF 40 Issue No:2



LABORATORY REPORT

BERGER PAINTS EMIRATES LTD CO (L.L.C.)
Dubai, UAE

Report no. WD-R-250926-0049
Sample No. WD-S-250926-0322
Report Date. 26/09/2025

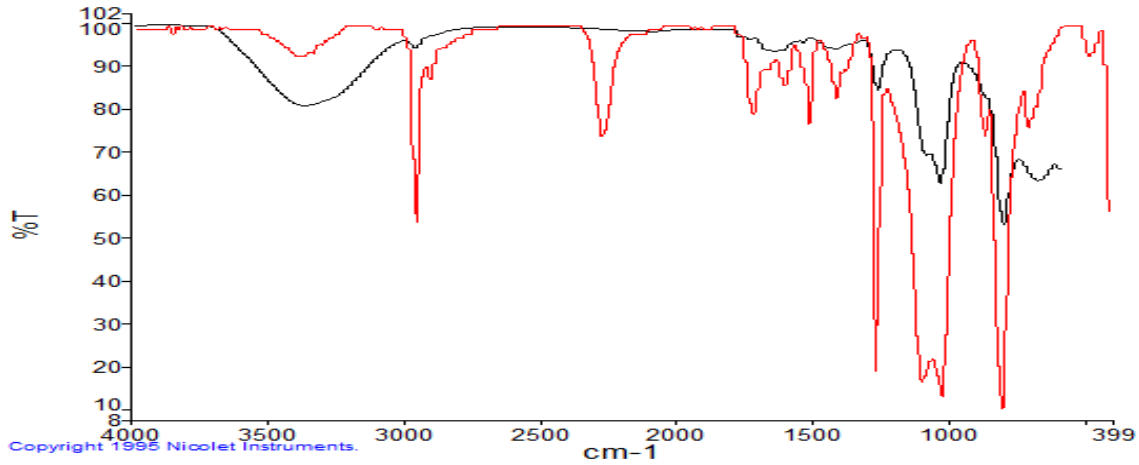
Introduction: Further to the request received from M/s. BERGER PAINTS EMIRATES LTD CO (L.L.C.) dated 26th September 2025, the sample of Paint was tested, and the results are as follows.

Sample Type : Weathercoat Ultra
Request No. : WD-Q-250926-0025
Sample Received Date : 26/09/2025
Date Tested : 26/09/2025
Tested By : AY

Result of FTIR Analysis

Index	Sample Name	Search Best Hit Description
1	Weathercoat Ultra	Polymethyl methacrylate

Spectra





Search Score	Search Reference Spectrum Description
0.598519	BINDEX 420
0.606522	Poly(acrylic acid) (nom mw: 5,000)
0.610964	Poly(acrylic acid) (nom mw: 4,000,000)
0.616778	TAMOL 165 DISPERSANT
0.622998	Poly(acrylic acid) (nom mw: 170,000)
0.626162	Poly(acrylic acid) (nom mw: 1,250,000)
0.636862	Poly(acrylic acid) (nom mw: 750,000)
0.639262	Poly(acrylic acid) (nom mw: 243,000)
0.840251	Poly(dimethylsiloxane) (n=60,000)
0.904892	Poly(dimethylsiloxane) (n=60,000 cps)
0.90599	Poly(dimethylsiloxane) (n=1,000 ctk)

Remarks: Based on the test results, the most probable material match is Polymethyl methacrylate; which is a pure acrylic composition.

Signed for and on behalf of Wimpey Laboratories LLC

Arya Rajeev
Senior Chemist

Test results relate only to the samples tested.

This report shall not be reproduced except in full, without the written approval of the Laboratory.

-End of text-



Testing, calibrating, advising

REPORT OF TESTS

Description	One Sample of Paint		
Tested for	Berger Paints Emirates Ltd, P.O.Box.27524, Dubai - U.A.E		
Lab Report No.	WR14-06803 (Page 1 of 1)	Request No.	D14-03235
Date Received	26.06.2014	Date Reported	17.08.2014

Client's reference : Requisition dated 26.06.2014
Product name : Berger Penetrating Primer – 40 Microns
Weathercoat Ultra – 100 Microns
Source : Berger Paint
AFE No. : D14-03235/1

1.0 Introduction

Further to the test work instructions received from M/s. Berger Paints Emirates Ltd, Dubai, dated 26.06.2014, one sample of paint provided has been tested for the following by Al Futtaim Exova LLC;

2.0 Adhesion Strength

Test Method : The test was carried out in general accordance with ASTM D 4541 : 2002 using a portable adhesion tester.

The test procedure involved fixing a circular dolly over the test area using two part component adhesive. A partial depth circumferential cut was made over the test area.

After the adhesive had cured sufficiently the test was performed using the portable adhesion tester until failure occurred.

Test Ref. No.	1	2	3
Test position	Vertical	Vertical	Vertical
Pull off strength (N/mm ²)	1.5	1.5	1.5
Failure mode	Adhesive failure between the substrate & first layer (Primer)		



A. UMAR FAROOK
Quality Control & Consumer Products Manager

For and on behalf of Al Futtaim Exova (E.L.C)

Tested by: SSK, Date tested: 24.07.2014

Sampled by the client, certificate of sampling was not given.

This report shall only be reproduced in full. Approval of the testing laboratory is required for partial reproduction.
Samples will be retained for a period of one month only, unless otherwise requested.
The test results relate only to the samples tested.



STANDARD METHOD FOR THE TESTING AND EVALUATION OF VOLATILE ORGANIC CHEMICAL (VOC) EMISSIONS FROM INDOOR SOURCES USING ENVIRONMENTAL CHAMBERS VERSION 1.2-CALIFORNIA DEPARTMENT OF PUBLIC HEALTH (CDPH)

(Emission testing method for California Specification 01350)

Laboratory Report

1. Introduction

Middle East Testing Laboratory L.L.C (METS) were contacted by Berger Paints Emirates Ltd Co LLC, and requested to perform 14 day's emission test as per CDPH Method.

Client : Berger Paints Emirates Ltd Co LLC
PO Box: 27524, Al Qouz Industrial Area 1, Opp TCTI Factory
Dubai, United Arab Emirates
Report No : MR-180823-249
Reporting Date : 09/09/2023
Tested by : SH
Date of Analysis : 18/08/2023-09/09/2023
Issue No : 01 (Re-Issue Date: N/A)

2. Sample Information

Sample Description : Weather Coat Ultra Matt

3. Brief Evaluation of the Results:

MS-180823-283	TVOC and Individual VOC's of Concern		Formaldehyde	
	Criterion	Compliance	Criterion	Compliance
	TVOC: <0.5 mg/m ³	PASS	≤9.0µg/m ³	PASS
	Individual VOC: < Limit	PASS		

Details are furnished in the following pages

Prepared by

Chemist
Material Science Division (MSD)
Employee Code: METS AJ EC 180



Verified by

Team Head
Material Science Division (MSD)
Employee Code: METS AJ EC 110

Issue No:2
Form MRF 40



Report No: MR-180823-249

4. Test Method

Standard Method for the Testing and Evaluation of VOC Emissions from Indoor Sources using Environmental Chambers, version 1.2 of January 2017 by the California Department of Public Health (CDPH Method).

For evaluation of test results the principle of shared risk is applied, i.e. for a max limit, a result Less than or equal to the limit complies and a result Greater than the limit does not comply.

5. Sample Preparation

The Weather Coat Ultra Matt was mixed vigorously until it is fully homogenous and coated on a steel plate which has an area of 0.36 m²

6. Test Procedure

Principle: To determine the specific emission rates of VOC's emitted from the tested specimen. The test was conducted in a small scale environmental chamber at specified constant conditions of temperature, relative humidity, ventilation rate and product loading factor. The chamber is considered to be a constantly stirred tank reactor. As the air in the chamber is fully mixed, VOC concentrations measured at the chamber exhaust represents the air concentrations in the chamber. From the airflow rate into the chamber, the VOC concentration, and the exposed surface area of the specimen, an area-specific emission rate or emission factor is calculated using the steady-state form of the mass-balance model.

The specimens were placed in a separate conditioning container in a room with controlled climate conditions of temperature 23 ± 1°C and 50 ± 4 % RH. After 10 days ± 5 h of conditioning the specimens were placed in a 1 m³ emission chamber of stainless steel. Air samplings, minimum duplicates, were carried out after 24, 48 and 96 hours in the chamber.

Conditions in the emission chamber

Chamber volume	: 1.0 m ³ , stainless steel
Temperature	: 23 ± 1°C
Relative humidity	: 50 ± 4 % RH
Area of test specimen	: 0.36 m ²
Area specific air flow rate	: 2.0 m ³ /m ² h
Air exchange rate	: 1.0 h ⁻¹
Air velocity at specimen surface	: 0.1 – 0.3 m/s

The air samples from the chamber was collected into a collection vessel containing sorbent materials. VOC's are determined by GC comparing the chromatographic retention time and mass spectrum of the unknown to the corresponding parameters for the pure compound analyzed on the same. Matching retention times and mass spectra provide positive, confirmed identifications.

The capillary column used is RXi-624 Sil MS – 30m x 0.32mm x 1.8µm. The mass/charge ratio is used for compound identification. The total volatile organic compounds (TVOC) means compounds eluting between and including n-hexane to hexadecane, having boiling points in the range of about 60-250 °C. The emission rate of TVOC is quantified with known equivalent standard and includes all compounds ca ≥ 1 µg/m³ in the chamber. Minimum duplicate air samples were taken and the results are mean values. Sampled volumes are 3 to 8 L.

The samplings of formaldehyde and acetaldehyde were carried out with DNPH samplers. The samplers were analyzed similar to ISO 16000-3:2011(Indoor air--Part 3: Determination of formaldehyde and other carbonyl compounds – Active sampling method). This means analysis on a liquid chromatograph with absorbance detector. Duplicate air samples were taken and the results are mean values. Sampled volumes were 60 to 80 L.



Page 2 of 9

Issue No:2

Form MRF 40



Report No: MR-180823-249

7. Results

The results in Table 1, 2 and 3 are expressed as concentrations in the test chamber and as area specific emission rates. Calculation of emission rate from chamber concentration:

$$SER_i = \frac{Conc \times n}{L}$$

SER_i = area specific emission rate, in µg/m²h

Conc = concentration of a VOC in the chamber, in µg/m³

n = air exchange rate, in changes per hour

L = loading factor, in m²/m³ (area of sample/volume of chamber)

Test results of TVOC and formaldehyde after 24 hours and 48 hours

Table 1

Test results of Weather Coat Ultra Matt, after 24 h

Volatile organic compound	CAS number	Retention time (min)	Concentration in the chamber (µg/m ³)	Emission rate (µg/m ² h)
After 24 h:				
TVOC (C6 – C16)	--	5.9-40.1	< 20	< 50
Formaldehyde	50-00-0	--	< 1	< 1

Table 2

Test results of Weather Coat Ultra Matt, after 48 h

Volatile organic compound	CAS number	Retention time (min)	Concentration in the chamber (µg/m ³)	Emission rate (µg/m ² h)
After 48 h:				
TVOC (C6 – C16)	--	5.9-40.1	< 20	< 50
Formaldehyde	50-00-0	--	< 1	< 1



Form MRF 40 Issue No:2

Report No: MR-180823-249

Test results of TVOC and VOCs after 96 hours
Table 3

Volatile organic compound	CAS number	Retention time (min)	Concentration in the chamber ($\mu\text{g}/\text{m}^3$)	Emission rate ($\mu\text{g}/\text{m}^2\text{h}$)
TVOC (C6 – C16)	--	5.9-40.1	< 20	< 50
Identified substances:				
No substances identified	--	--	< 2	< 4
Volatile Carcinogens ¹		5.9-40.1		
No substances identified	--	--	< 1	< 1
Substances outside TVOC:				
WVOC (< C6)		4.5 – 6.2		
No substances identified	--	--	< 2	< 4
SVOC (C16 – C22)		37.9 - 50.0		
No substances identified	--	--	< 2	< 4
Formaldehyde	50-00-0	--	< 1	< 1
Acetaldehyde	75-07-0	--	< 1	< 1

Test results of Weather Coat Ultra Matt, after 96 h

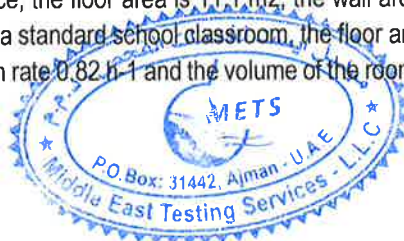
¹⁾ Volatile carcinogens = VOCs according to EU Regulation No 1272/2008 Annex VI, cat 1A and 1B

The emission results in Table 4 are expressed as area emission rates (in $\mu\text{g}/\text{m}^2\text{h}$) and as concentrations in a standard private office and in a standard school classroom (in $\mu\text{g}/\text{m}^3$). Calculation of concentration of VOC in the standard private office from emission rate:

$$C = (SER \times A) \div (n \times V)$$

C = concentration of VOC in the private office, in $\mu\text{g}/\text{m}^3$
 SER_a = area specific emission rate of the tested product, in $\mu\text{g}/\text{m}^2\text{h}$
 A = surface area of the tested product, in m, here 33.4 m² (wall area)
 n = air ventilation rate, in changes per hour, here 0.68 h⁻¹
 V = volume of a private office in m³, here 30.6 m³

In the standard private office, the floor area is 11.1 m², the wall area is 33.4 m², door & other millwork 1.89 m² and wall base area 1.27 m². In a standard school classroom, the floor area is 89.2 m², the wall area is 94.6 m², wall base area 9.68 m², air ventilation rate 0.82 h⁻¹ and the volume of the room is 231 m³. Wall area is used for the calculations.





Report No: MR-180823-249

Test results of the estimated concentrations in a standard private office and a standard school classroom scenarios according to the target VOCs according to one-half of the CREL list (compound 1-35) and non-listed compounds:

Table 4

Estimated concentrations in a standard private office and a standard school classroom

No	Volatile organic compound	CAS number	Emission rate ($\mu\text{g}/\text{m}^2\text{h}$)	Concentration in private office ($\mu\text{g}/\text{m}^3$)	Concentration in school classroom ($\mu\text{g}/\text{m}^3$)
1.	Acetaldehyde	75-07-0	n.d	< 3	< 1
2.	Benzene	71-43-2	n.d	< 0.3	< 0.3
3.	Carbon disulfide	75-15-0	n.d	< 3	< 1
4.	Carbon tetrachloride	56-23-5	n.d	< 3	< 1
5.	Chlorobenzene	108-90-7	n.d	< 3	< 1
6.	Chloroform	67-66-3	n.d	< 3	< 1
7.	Dichlorobenzene (1,4-)	106-46-7	n.d	< 3	< 1
8.	Dichloroethylene (1,1)	75-35-4	n.d	< 3	< 1
9.	Dimethylformamide (N,N-)	68-12-2	n.d	< 3	< 1
10.	Dioxane (1,4-)	123-91-1	n.d	< 3	< 1
11.	Epichlorohydrin	106-89-8	n.d	< 3	< 1
12.	Ethylbenzene	100-41-4	n.d	< 3	< 1
13.	Ethylene glycol	107-21-1	n.d	< 3	< 1
14.	Ethylene glycol monoethyl ether	110-80-5	n.d	< 3	< 1
15.	Ethylene glycol monoethyl ether acetate	111-15-9	n.d	< 3	< 1
16.	Ethylene glycol monomethyl ether	109-86-4	n.d	< 3	< 1
17.	Ethylene glycol monomethyl ether	110-49-6	n.d	< 3	< 1
18.	Formaldehyde	50-00-0	n.d.	< 3	< 1
19.	Hexane (n-)	110-54-3	n.d	< 3	< 1
20.	Isophorone	78-59-1	n.d	< 3	< 1
21.	Isopropanol	67-63-0	n.d	< 3	< 1
22.	Methyl chloroform	71-55-6	n.d	< 3	< 1
23.	Methylene chloride	75-09-2	n.d	< 3	< 1
24.	Methyl t-butyl ether	1634-04-4	n.d	< 3	< 1
25.	Naphthalene	91-20-3	n.d	< 3	< 1

Issue No:2
Form MRF 40



Report No: MR-180823-249

Table 4 Cont.

No	Volatile organic compound	CAS number	Emission rate ($\mu\text{g}/\text{m}^2\text{h}$)	Concentration in private office ($\mu\text{g}/\text{m}^3$)	Concentration in school classroom ($\mu\text{g}/\text{m}^3$)
26.	Phenol	108-95-2	n.d	< 3	< 1
27.	Propylene glycol monomethyl ether	107-98-2	n.d	< 3	< 1
28.	Styrene	100-42-5	n.d	< 3	< 1
29.	Tetrachloroethylene	127-18-4	n.d	< 3	< 1
30.	Toluene	108-88-3	n.d	< 3	< 1
31.	Trichloroethylene	79-01-6	n.d	< 3	< 1
32.	Vinyl acetate	108-05-4	n.d	< 3	< 1
33-35	Xylenes (m-, o-, p-)	108-38-3, 95-47-6, 106-42-3	n.d	< 3	< 1
	TVOC (C6 – C16)	-	< 20	< 30	< 10
	SVOC (C16 – C22)	-	< 2	< 3	< 1

ND = Not detected (detection limit is approx. $2 \mu\text{g}/\text{m}^2\text{h}$)

Evaluation of the test results

The tested product Test results of Weather Coat Ultra Matt complies with the requirements of the Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources using Environmental Chambers, version 1.2, 2017, by the California Department of Public Health.

The test results can be used to evaluate compliance with the indoor air emission requirements of LEEDv4 and BREEAM International (2016), see Table 5 and 6. The sample is evaluated as a wall product.





Report No: MR-180823-249

Table 5.
Standard private office: Compliance with LEEDv4 and BREEAM International (2016)

	Concentration in private office (mg/m3)	Maximum allowable conc. (mg/m3)	PASS / FAIL
LEEDv4			
TVOC	<0.010	0.5 mg/m3 or less	PASS
		between 0.5 and 5.0 mg/m3	-
		5.0 mg/m3 or more	.
Acetaldehyde	< 0.003	0.070	PASS
Formaldehyde	< 0.003	0.009	PASS
Single VOC compounds found with defined CREL:	n.d.	According to list of CREL (see App 3)	PASS
BREEAM International (2016)			
TVOC	<0.010	1.0 (emission criteria)	PASS
		0.3 (exemplary level emission criteria)	PASS
SVOC	< 0.003	0.1 (exemplary level emission criteria)	PASS
Carc cat 1A+1B	< 0.001	0.001	PASS
Formaldehyde	< 0.003	0.06 (emission criteria)	PASS
		0.01 (exemplary level emission criteria)	PASS



Issue No:2
Form MRF 40

Report No: MR-180823-249

Table 6.
Standard school classroom: Compliance with LEEDv4 and BREEAM International (2016)

	Concentration in private office (mg/m3)	Maximum allowable conc. (mg/m3)	PASS / FAIL
LEEDv4			
TVOC	<0.010	0.5 mg/m3 or less	PASS
		between 0.5 and 5.0 mg/m3	-
		5.0 mg/m3 or more	-
Acetaldehyde	< 0.001	0.070	PASS
Formaldehyde	< 0.001	0.009	PASS
Single VOC compounds found with defined CREL:	ND	According to list of CREL (see App 3)	PASS
BREEAM International (2016)			
TVOC	<0.010	1.0 (emission criteria)	PASS
		0.3 (exemplary level emission criteria)	PASS
SVOC	<0.001	0.1 (exemplary level emission criteria)	PASS
Carc cat 1A+1B	< 0.001	0.001	PASS
Formaldehyde	< 0.001	0.06 (emission criteria)	PASS

Appendices:

1. Target CREL VOCs and their maximum allowable concentrations

The above test report shall not be reproduced (except in full) without the written approval of METS. When analysis is witnessed by us or carried out by sub contract labs, our responsibility is solely to ensure that the analysis is conducted to standard test methods in accordance with industry accepted practice.

For further clarification of reports, please contact qc@metslab.com



Issue No:2
Form MRF 40



Report No: MR-180823-249

APPENDIX I

Sl. No	Volatile organic compound	CAS number	Maximum allowable conc. ($\mu\text{g}/\text{m}^3$)
1.	Acetaldehyde	75-07-0	70
2.	Benzene	71-43-2	0.3
3.	Carbon disulfide	75-15-0	400
4.	Carbon tetrachloride	56-23-5	20
5.	Chlorobenzene	108-90-7	500
6.	Chloroform	67-66-3	150
7.	Dichlorobenzene (1,4-)	106-46-7	400
8.	Dichloroethylene (1,1)	75-35-4	35
9.	Dimethylformamide (N,N-)	68-12-2	40
10.	Dioxane (1,4-)	123-91-1	1 500
11.	Epichlorohydrin	106-89-8	1.5
12.	Ethylbenzene	100-41-4	1 000
13.	Ethylene glycol	107-21-1	200
14.	Ethylene glycol monoethyl ether	110-80-5	35
15.	Ethylene glycol monoethyl ether acetate	111-15-9	150
16.	Ethylene glycol monomethyl ether	109-86-4	30
17.	Ethylene glycol monomethyl ether acetate	110-49-6	45
18.	Formaldehyde	50-00-0	9
19.	Hexane (n-)	110-54-3	3 500
20.	Isophorone	78-59-1	1 000
21.	Isopropanol	67-63-0	3 500
22.	Methyl chloroform	71-55-6	500
23.	Methylene chloride	75-09-2	200
24.	Methyl t-butyl ether	1634-04-4	4 000
25.	Naphthalene	91-20-3	4.5
26.	Phenol	108-95-2	100
27.	Propylene glycol monomethyl ether	107-98-2	3 500
28.	Styrene	100-42-5	450
29.	Tetrachloroethylene	127-18-4	17.5
30.	Toluene	108-88-3	150
31.	Trichloroethylene	79-01-6	300
32.	Vinyl acetate	108-05-4	100
33-35	Xylenes (m-, o-, p-)	108-38-3, 95-47-6, 106-42-3	350

Target CREL VOCs and their maximum allowable concentrations

NOTE: No traceability details were provided by client.



-End of Report-

Form MRF 40 Issue No:2



LABORATORY REPORT

BERGER PAINTS EMIRATES LTD CO (L.L.C.)

Report No. WD-R-250703-0320

Sample No. WD-S-250703-1108

Report Date. 09/07/2025

Introduction: As per the request received from **M/s. BERGER PAINTS EMIRATES LTD CO (L.L.C.)** on 03rd July 2025, the sample of Paint was tested. Given below are the results obtained.

Sample Type : Paint
Request Number : WD-Q-250703-0071
Sample Date Received : 03/07/2025
Date Tested : 03/07/2025-09/07/2025
Tested By : CB

General Information

Sample Description : WEATHERCOAT ULTRA MATT RAL1013J L780M

Solar Reflectance Index (SRI)

Test methods

Emissivity : ASTM C 1371
Solar reflectance : ASTM C 1549
SRI for wind condition (Low, Medium, High) : ASTM E 1980:01

Thermal emissivity: 0.68		Solar reflectance (%): 75.12		
Condition	Low wind (0-2 m/s)	Medium wind (2-6 m/s)	High wind (6-30 m/s)	
Convective coefficient, (W/(m ² K))	5.0	12.0	30.0	
Roof surface temperature (°C)	57.3	49.1	42.8	
Solar reflectance index, SRI	85	88	90	

Remark: None

Signed for and on behalf of Wimpey Laboratories LLC

Anandu VS
Section In Charge-Chemistry Specialty

Test results relate only to the samples tested.

This report shall not be reproduced except in full, without the written approval of the laboratory



-End of text-



LABORATORY REPORT

BERGER PAINTS EMIRATES LTD CO (L.L.C.)

Report No. WD-R-250703-0869

Sample No. WD-S-250703-1622

Report Date. 09/07/2025

Introduction: As per the request received from **M/s. BERGER PAINTS EMIRATES LTD CO (L.L.C.)** on 03rd July 2025, the sample of Paint was tested. Given below are the results obtained.

Sample Type : Paint
Request Number : WD-Q-250703-0071
Sample Date Received : 03/07/2025
Date Tested : 03/07/2025-09/07/2025
Tested By : CB

General Information

Sample Description : WEATHERCOAT ULTRA MATT CW L134 L1222M

Solar Reflectance Index (SRI)

Test methods

Emissivity : ASTM C 1371
Solar reflectance : ASTM C 1549
SRI for wind condition (Low, Medium, High) : ASTM E 1980:01

Thermal emissivity: 0.72		Solar reflectance (%): 85.21		
Condition	Low wind (0-2 m/s)	Medium wind (2-6 m/s)	High wind (6-30 m/s)	
Convective coefficient, (W/(m ² K))	5.0	12.0	30.0	
Roof surface temperature (°C)	47.1	42.9	39.8	
Solar reflectance index, SRI	104	104	105	

Remark: None

Signed for and on behalf of Wimpey Laboratories LLC

Anandu VS
Section In Charge-Chemistry Specialty

Test results relate only to the samples tested.

This report shall not be reproduced except in full, without the written approval of the laboratory



-End of text-



LABORATORY REPORT

BERGER PAINTS EMIRATES LTD CO (L.L.C.)

Report No. WD-R-250703-0870

Sample No. WD-S-250703-1623

Report Date. 09/07/2025

Introduction: As per the request received from **M/s. BERGER PAINTS EMIRATES LTD CO (L.L.C.)** on 03rd July 2025, the sample of Paint was tested. Given below are the results obtained.

Sample Type : Paint
Request Number : WD-Q-250703-0071
Sample Date Received : 03/07/2025
Date Tested : 03/07/2025-09/07/2025
Tested By : CB

General Information

Sample Description : WEATHERCOAT ULTRA MATT L1230M

Solar Reflectance Index (SRI)

Test methods

Emissivity : ASTM C 1371
Solar reflectance : ASTM C 1549
SRI for wind condition (Low, Medium, High) : ASTM E 1980:01

Thermal emissivity: 0.72		Solar reflectance (%): 45.21		
Condition	Low wind (0-2 m/s)	Medium wind (2-6 m/s)	High wind (6-30 m/s)	
Convective coefficient, (W/(m ² K))	5.0	12.0	30.0	
Roof surface temperature (°C)	82.4	65.5	51.2	
Solar reflectance index, SRI	39	45	49	

Remark: None

Signed for and on behalf of Wimpey Laboratories LLC

Anandu VS
Section In Charge-Chemistry Specialty

Test results relate only to the samples tested.

This report shall not be reproduced except in full, without the written approval of the laboratory



-End of text-



LABORATORY REPORT

BERGER PAINTS EMIRATES LTD CO (L.L.C.)

Report No. WD-R-250703-0876

Sample No. WD-S-250703-1629

Report Date. 09/07/2025

Introduction: As per the request received from **M/s. BERGER PAINTS EMIRATES LTD CO (L.L.C.)** on 03rd July 2025, the sample of Paint was tested. Given below are the results obtained.

Sample Type : Paint
Request Number : WD-Q-250703-0071
Sample Date Received : 03/07/2025
Date Tested : 03/07/2025-09/07/2025
Tested By : CB

General Information

Sample Description : WEATHERCOAT ULTRA MATT CW 8299 L1226M

Solar Reflectance Index (SRI)

Test methods

Emissivity : ASTM C 1371
Solar reflectance : ASTM C 1549
SRI for wind condition (Low, Medium, High) : ASTM E 1980:01

Thermal emissivity: 0.77		Solar reflectance (%): 64.5		
Condition	Low wind (0-2 m/s)	Medium wind (2-6 m/s)	High wind (6-30 m/s)	
Convective coefficient, (W/(m ² K))	5.0	12.0	30.0	
Roof surface temperature (°C)	65.2	54.4	45.6	
Solar reflectance index, SRI	71	74	76	

Remark: None

Signed for and on behalf of Wimpey Laboratories LLC

Anandu VS
Section In Charge-Chemistry Specialty

Test results relate only to the samples tested.

This report shall not be reproduced except in full, without the written approval of the laboratory



-End of text-