TEST REPORT

Report No.: MR-010524-144

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

Sample ID : MS-010524-151
Sample Receiving Date : 01/05/2024
Reporting Date : 26/06/2024
Date of Analysis : 01/05/2024 - 26/06/2024
Tested by : JK
Issue No : 01 (Re-Issue Date: NA)

Sample Information:

Sample Description : WEATHERCOAT ACRYLIC SPRAY COMPOUND

Test Results:

1. Heavy Metals

Test Method: METS-IP-20
Test Condition:23±2^{0}C

Parameter	Test Method	Unit	Result
Lead	METS-IP-20	ppm	ND$^{(DL:1.0)}$
Antimony		ppm	ND$^{(DL:1.5)}$
Chromium		ppm	ND$^{(DL:1.0)}$
Mercury		ppm	ND$^{(DL:3.5)}$
Arsenic		ppm	ND$^{(DL:1.8)}$
Cadmium		ppm	ND$^{(DL:0.6)}$

2. Volatile Organic Compounds (VOC)*

Test Method: US EPA 24

Parameter	Test Method	Unit	Result
Volatile Organic Compounds (VOC)*	US EPA 24	g/L	< 1

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3. RESISTANCE TO MOLD GROWTH

Objective: To study the fungal/mold resistance activity of "WEATHERCOAT ACRYLIC SPRAY COMPPOUND" in accordance with ASTM D3273.

Conclusion: The tested specimen has a rating of 10 based on the results observed from week 1 to week 4 and thereby it can be concluded that the tested specimen has resistance against *Aureobasidium pullulans, Aspergillus niger* and *Penicillium* species.

Result of Mildew resistance test **Date of analysis: 01/05/2024-29/05/2024**

Executive summary: This accelerated test evaluates the relative resistance of coated interior materials to surface mold and mildew growth in a severe environment over a 4-week period. The test exploits on the surface of conspicuous mass of moldy soil that continuously releases fungal spores on the controlled and uncontrolled suspended test piece above the soil in a controlled humid/temperature condition for a period of 28 days. Fungal growth is based on visual defacement using a 0 to 10 rating scale with 0 being completely covered with growth and 10 being clean. For the purpose, the received sample was coated on gypsum panels having dimension of 50 x 50 mm length and 10 mm thickness. Uncoated gypsum board panel of similar dimensions was used as a reference/controlled material.

The fungal species used in the study are *Aureobasidium pullulans, Aspergillus niger* and *Penicillium* species. The fungi were grown on mold slants for 10-14 days at 26 °C. The plates were applied with 10 mL of 0.9% NaCl-solution, and the spores were harvested with a sterile spatula. The spore-suspension was filtered through a thin layer of cotton wool and the suspension was transferred to a flask containing glass beads and shaken to break clumps of cells.

Exposure: The test soil, greenhouse-grade potting soil containing 25% peat moss, were placed in a tray in the cabinet and inoculated with mold suspensions prepared. The spore suspension was distributed evenly over the surface of the soil and allows 7 to 14 days for sporulation and equilibrate with the environment before initiating the test. Viability of the mold growth can be checked by placing malt agar plates in the cabinet. Mold growth should be medium-heavy to heavy covering the complete surface of the agar plate. After verifying the mold growth in the cabinet, the test-panels and the reference-panels were placed vertically in the cabinet with the bottom of each specimen approximately 3 inches above the surface of the inoculated soil. The panels were exposed for four weeks in the cabinet maintained at a temperature of 32.5 (±1)°C and a relative humidity of 95(±3

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Ratings: The test-panels and the reference-panels were evaluated weekly for a period 28 days. The samples shall be rated on a scale of 1 to 10 upon completion of the incubation period. A rating of 10 is the complete absence of mold growth and a rating of 1 is 100% coverage of the surface area with mold.

Rating scale according to ASTM D3273: Percentage of surface defacement	
Rate	**Defacement (%)**
10	No defacement
9	1-10% defacement
8	11-20% defacement
7	21-30% defacement
6	31-40% defacement
5	41-50% defacement
4	51-60% defacement
3	61-70% defacement
2	71-80% defacement
1	81-90% defacement
0	91-100% defacement

Rating scale as per ASTM

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Test Results:

Test Duration	Observation/Result	Rating
Week # 1	Mold Growth Present	4
Week # 2	Mold Growth Present	3
Week # 3	Mold Growth Present	2
Week # 4	Mold Growth Present	0
Final Rating		**0**

Control Specimen: Gypsum Board.

Test Duration	Observation/Result	Rating
Week # 1	No Mold Growth	10
Week # 2	No Mold Growth	10
Week # 3	No Mold Growth	10
Week # 4	No Mold Growth	10
Final Rating		**10**

Test Specimen: WEATHERCOAT ACRYLIC SPRAY COMPPOUND.

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-

مختبرات ويمبي ش.ذ.م.م.
WIMPEY LABORATORIES L.L.C.

LABORATORY REPORT

BERGER PAINTS EMIRATES LTD CO (L.L.C.)
P.O .Box 27524
Dubai, UAE

Report No: WD-R-230720-0610
Sample No: WD-S-230720-0577
Report Date: 28/07/2023

Introduction: Further to the request received from **M/s. BERGER PAINTS EMIRATES LTD CO (L.L.C.)** on 20th July 2023, the sample of Paint was tested and the results are as follows.

Sample Type : Paint
Request Number : WD-Q-230720-0124
Sample date received : 20/07/2023
Date of Test : 20/07/2023-28/07/2023
Tested by : AY

General Information
Name of the Product : Weathercoat Acrylic Spray Compound

Results of Analysis

Test	Method	Unit	Result
VOC Content	USEPA 24	g/L	<1***
Heavy metals			
Lead (Pb)	ICP-AES/IHP	ppm	<0.08*
Cadmium (Cd)		ppm	<0.08*
Arsenic (As)		ppm	<0.08*
Mercury (Hg)		ppm	<0.1**
Antimony (Sb)		ppm	<0.1**

Note: *LOD of the test method is 0.08 g/L. <0.08 is considered as 'Nil or Absent'.
**LOD of the test method is 0.1 g/L. <0.1 is considered as 'Nil or Absent'.
***LOD of the test method is 1 g/L. <1 is considered as 'Nil or Absent'.

Remarks: None

Signed for and on behalf of Wimpey Laboratories LLC

Anandu VS
Section Incharge Chemistry – Specialty
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TEST REPORT

Report No: MR-311025-035

Client / Establishment	: M/s. Berger Paints Emirates Ltd co (LLC) Al Quoz Indl Area No 1, Opp TCTI factory, P O Box: 27524 - Dubai, UAE

Sample ID	: MS-311025-035
Sample Receiving Date	: 31/10/2025
Reporting Date	: 22/12/2025
Date of Analysis	: 31/10/2025-10/12/2025
Tested by	: SH/SA
Issue No	: 01 (Re-Issue Date: NA)

Sample Information:

Sample Description	: Weathercoat Acrylic Spray Compound

Brief Evaluation of the Results:

	Test	Compliance
MS-311025-035	Formaldehyde Analysis	Pass#

The corresponding test results are furnished in following page

#The formaldehyde analysis complies to emission class E1 specification limits (EN 717-1).

Prepared by

Team Head
Central Equipment Division (CED)
Employee Code: METS AJ EC 117

Verified by

Supervisor
Employee Code: METS AJ EC 266

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Report No: MR-311025-035

1. **Test Method***
   EN 717-1 Standard Test Method for Determining Formaldehyde release -part-1 formaldehyde emission chamber method-Wood based panels

2. **Test Condition**
   Chamber volume: 1.0 m^3, stainless steel
   Test Temperature: 23 ± 0.5°C
   Test Humidity: 45 ± 3 % RH
   Air exchange rate: (1.0± 0.05) h^{-1}
   Conditioning: 24 ± 3°C Temperature & 50 ± 5 % Humidity

3. **Test Results**

Test Parameter	Test Method	Unit	Result	Maximum allowable concentration*
Formaldehyde	EN 717-1	mg/m^3	$ND^{(DL:0.1)}$	≤0.124

Remarks: Sample confirms to emission class E1
*European -CARB standard of California Air Resource Board.
Key words: ND- Not Detected/Below Detection Limit; DL- Detection Limit.

Image of the tested sample

Note: Where statements of conformity are made in this report, the following decision rules are applied;
PASS: Result ± expanded uncertainty within the limits/specifications
FAIL: Result ± expanded uncertainty exceeds the limits/specifications
Conditionally Pass/Fail: Result ± expanded uncertainty overlaps the limits/specifications
Expanded uncertainty is calculated with confidence level=95% and K=2
Test Location: Ajman

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

-End of Report-

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TEST REPORT ON VOLUME SOLIDS

Client	Berger Paints Emirates LTD CO LLC		
Project Name	N.G	Lab Report No.	WD-R-250421-0373
Sample Description	Weathercoat Acrylic Spray Compound	Request No	WD-Q-250421-0093
Sample Identification	N.G	Sample No.	WD-S-250421-0600
Source	Berger Paints Emirates LTD CO LLC	Date Received	21/04/2025
Test Method	ASTM D2697-22	Date Test completed	28/04/2025
Test Method for determining density of liquid coating	ASTM D1475-13(2020)	Date Reported	30/04/2025
Receptacle Used	Disc	Casting Date	28/04/2025
Immersion Liquid Used	Distilled Water	Room Temperature	23°C
Type of Air oven used	Hot Air oven	Relative Humidity	50%
Method of Coating Receptacle	By Dipping	Sample brought in by	Client
Drying Type	Flash dry : 1 Hour	Tested By	IJM
Wimpey Reference	250421011		

Test Result

Specimen Number	Unit	Result
1	%	60.92
2		60.18
Average		60.55

Remarks: None.

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

S.Sarath Kumar
Laboratory Manager

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