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WIMPEY LABORATORIES L.L.C.

LABORATORY REPORT

Kadisco Paint & Adhesive Industry S.C
Dubai, UAE

Report No: WD-R-231021-0722
Sample No: WD-S-231021-0705
Date of Report: 11/11/2023

Introduction: Further to the request received from M/s. Kadisco Paint & Adhesive Industry S.C dated 23rd September 2023; the sample of Paint was tested for below parameters.

Sample Type : Paint
Request No : WD-Q-231021-0131
Sample Received Date : 23/10/2023.
Date Tested : 23/10/2023-11/11/2023.
Tested By : MR

General Information

Name of the Product : Royal Matt

Result of Analysis

Test	Method	Unit	Result
VOC	USEPA 24	g/L	<1
Alkylphenol ethoxylates (APEOs)	ASTM D4252-89	ppm	<1

Remarks: None

Signed for and on behalf of Wimpey Laboratories LLC

Arya Rajeev
Chemist

Test results relate only to the samples tested.

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TEST REPORT ON SCRUB RESISTANCE

Customer Name	Kadisco Paint and Adhesive Industry S.C P.O Box: 120919 Ethiopia		
Sample Description	Royale Primer + Royale Matt Emulsion	Lab Report No.	WD-R-231023-0644/1
Source	N.G	Lab Request No.	WD-Q-231023-0163
Test Method	DIN 53778	Sample No.	WD-S-231023-0613/1
Test Temperature	23°C & 50% RH	Date Received	23/10/2023
Tested Location	Wimpey-Dubai	Casting Date	28/10/2023
Wimpey Ref No.	23102331	Date Tested	04/11/2023
Tested By	SU	Date Reported	14/11/2023

Test Results

Test	Result
Scrub Resistance	20000 Cycles

Remarks: None.

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


S. Sarath Kumar
Head of Department

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TEST REPORT ON VOLUME SOLIDS

Client	Kadisco Paint and Adhesive Industry S.C P.O Box: 120919 Ethiopia		
Project Name	N.G	Lab Report No.	WD-R-231023-0644/2
Sample Description	Royale Primer + Royale Matt Emulsion	Lab Request No.	WD-Q-231023-0163
Source	N.G	Sample No.	WD-S-231023-0613/1
Client's Ref.	N.G	Date Received	23/10/2023
Test Method	ASTM D2697-03(2021)	Date Tested	28/10/2023
Receptacle Used	Metal Disc	Date Reported	14/11/2023
Immersion Liquid Used	Distilled Water	Cast Date	28/10/2023
Type of Air oven used	Hot Air oven	Room Temperature	23°C
Method of Coating Receptacle	By Dipping	Relative Humidity	50%
Drying Type	1 hour flash dry at 105°C	Sample brought in by	Client
Wimpey Lab Ref No.	23102331	Tested By	PK

Test Results

Specimen Number	Unit	Result
1	%	39.6
2		41.2
Average		40.4

Remarks: None.

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

S. Sarath Kumar
Head of Department

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TEST REPORT ON PULL-OFF ADHESION STRENGTH

Customer Name	Kadisco Paint and Adhesive Industry S.C P.O Box: 120919 Ethiopia		
Project Name	N.G	Lab Report No.	WD-R-231023-0644/3
Sample Description	Royale Primer + Royale Matt Emulsion	Lab Request No.	WD-Q-231023-0163
Source	Kadisco Paint and Adhesive Industry S.C	Sample No.	WD-S-231023-0613/1
Test Method	ASTM D4541-22	Wimpey Ref No.	23102331
Machine Details	Manufacturer: Elcometer Model: 510-50T Serial Number: WA 22213	Date Received	23/10/2023
Location	In-House	Date Tested	04/11/2023
Test Temperature & Relative Humidity	23°C & 50%	Date Reported	14/11/2023
Substrate Used	Concrete	Cast Date	28/10/2023
Adhesive Used	Two Component Epoxy	Curing Condition	7 days at 23°C
Tested By	SU		

Test Procedure

The general pull-off test is performed by securing a loading fixture (dolly, stud) normal (perpendicular) to the surface of the coating with an adhesive. After the adhesive is cured, a testing apparatus is attached to the loading fixture and aligned to apply tension normal to the test surface. The force applied to the loading fixture is then gradually increased and monitored until either a plug of material is detached, or a specified value is reached. When a plug of material is detached the exposed surface represents the plane of limiting strength within the system.

The nature of the failure is qualified in accordance with the percent of adhesive and cohesive failures, and the actual interfaces and layers involved.

The pull-off strength is computed based on the maximum indicated load

Description	RESULTS		
Test Number	1	2	3
Test Position	Vertical	Vertical	Vertical
Size of Dolly (mm)	20	20	20
Max. Load Applied (N)	923.2	672.0	797.6
Pull off Strength (N/mm ²)	2.94	2.14	2.54
Average Pull off Strength (N/mm ²)	2.54		
Mode of Failure	100% Failure observed from Concrete		

Remarks: None

Signed for and on behalf of Wimpey Laboratories LLC

S. Sarath Kumar
Head of Department

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LABORATORY REPORT

Kadisco Paint & Adhesive Industry S.C.
Dubai, UAE

Report No: WD-R-231021-0728
Sample No: WD-S-231021-0713
Report Date: 29/11/2023

Introduction: As per the request received from M/s. Kadisco Paint & Adhesive Industry S.C on 21st October 2023, the sample of Paint was tested. Given below are the results obtained.

Sample Type : Paint
Request Number : WD-Q-231021-0134
Sample Received Date : 21/10/2023.
Date Tested : 22/10/2023-29/11/2023.
Tested By : MR

General Information

Sample Description : Royale Primer & Royal Matt

Chemical Resistance

Test method : ASTM D 1308
Test temperature : 23±2°C
Test humidity : 55±5%
Test duration : 24 hours

Test	Observation	Result
Green staining agent (Cr ₂ O ₃)	No discoloration, change in gloss, blistering, swelling, softening, loss of adhesion or any special phenomenon	Resistant
Red staining agent (Fe ₂ O ₃)		Resistant
Iodine solution		Resistant
Olive oil		Resistant

Remarks: None

Signed for and on behalf of Wimpey Laboratories LLC

Arya Rajeev
Chemist

Test results relate only to the samples tested.

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TEST REPORT ON TENSILE STRENGTH & ELONGATION

Client	Kadisco Paint and Adhesive Industry S.C P.O Box: 120919 Ethiopia		
Sample Description	Royale Primer + Royale Matt Emulsion	Lab Report No.	WD-R-231023-0644/4
Source	N.G	Lab Request No.	WD-Q-231023-0163
Curing and test condition	Temperature: 23°C Relative Humidity: 50%	Sample No.	WD-S-231023-0613/1
Sampling Method	ASTM D412-16(2021)	Date Received	23/10/2023
Test Method	ASTM D412-16(2021)	Date Tested	04/11/2023
Specimen Type	Test Method A – Die C	Date Reported	14/11/2023
Rate of Speed	500 mm/minute	Cast Date	28/10/2023
Wimpey Ref No.	23102331	Curing Condition	7 days at 23°C
Tested By	PK		

Test Results

Specimen Number	Width (mm)	Thickness (mm)	Maximum Force (N)	Tensile Strength (N/mm ²)	Elongation %
1	25.0	0.17	16.5	3.88	158
2	25.0	0.15	12.6	3.36	155
3	25.0	0.19	19.5	4.11	154
4	25.0	0.18	16.0	3.56	161
5	25.0	0.17	15.3	3.59	157
Average				3.70	157

Remarks: None

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

S. Sarath Kumar
Head of Department

Test results relate only to the samples tested.

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TEST REPORT

Kadisco Paint & Adhesive Industry S.C.
Al,Quoz,Dubai
UAE

Report No: WD-R-231021-0723
Sample No: WD-S-231021-0706
Report Date: 23/11/2023

Sample Description : Royale Matt Emulsion
Batch Number : N/A
Manufacture date : N/A
Sample Received : 21/10/2023.
Test Date : 21/10/2023 to 23/11/2023.
Test Conducted By : DI

1.0 Introduction:

Further to the requisition received from **M/s Kadisco Paint & Adhesive Industry S.C.** dated **21st October 2023**, the sample was tested for Antifungal study.

2.0 Test method reference:

ASTM G21; Standard Practice for the determining Resistance of Synthetic Polymeric Materials to Fungi.

3.0 Methodology:

The test method involves the following.

1. Selection of suitable specimens for determinations of pertinent properties.
2. Inoculation of the specimens with suitable organisms.
3. Exposure of the inoculated specimens under conditions favorable to growth.
4. Examination and rating for visual growth.

The prepared sample and the controls of the same substrate were placed on to nutrient agar with sufficient nutrient salts. The spores of the inoculum were sprayed with the help of sterilized atomizer so that the entire surface is moistened with the spore suspension.

The plates were incubated at 28°C to 30°C and not less than 85% relative humidity for 26-28 days.

The results were reported by rating the growth for a period of 4-weeks. Traces of growth was estimated on "0 to 4" rating scale, in such a way that the value of "4" is taken as heavy growth and a value of "0" as no growth.

Observed colonies on test specimens	Rating
None (sterile)	0
Trace of growth (less than 10%)	1
Light growth (10 to 30% colonies)	2
Medium growth (30 to 60%)	3
Heavy growth(60% to complete coverage)	4

Fungi cultures used to prepare the test culture are *Aspergillus niger*, *Penicillium pinophilum*, *Chaetomium globosum*, *Glucocladium virens* and *Aureobasidium pullulans*.



4.0 Test Results

Test Duration	Observation/Result	Rating
Week # 1	No Growth (None)	0
Week # 2	No Growth (None)	0
Week # 3	No Growth (None)	0
Week # 4	No Growth (None)	0
Final Rating as per ASTM		0

5.0 Conclusion

Final rating scale of **0** as per ASTM G21, indicates that analyzed sample have a good resistance to Mold growth under the controlled test conditions.

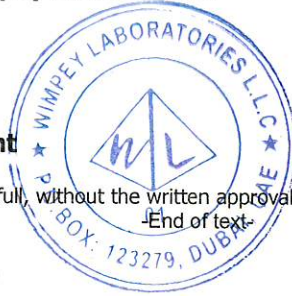
Signed for and on behalf of Wimpey Laboratories

Shamna Salamuddin

Head of Microbiology Department

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