BIOTECH TESTING SERVICES

TEST REPORT

LAB NO. : 1901344/ 1	DATE: 18/10/2019

NAME OF CUSTOMER : ASIAN PAINTS LIMITED

ADDRESS : R & T Center - Turbhe, Plot No C - 3B/1,
TTC Industrial Area, MIDC Pawane,
Thane Belapur Road, Navi Mumbai 400703

REFERENCE : Letter Ref. No. Nil dated September 04, 2019
K. Attention: Shyam R Nagpure

DATE OF RECEIPT : 11/09/2019

DATE OF INITIATION : 11/09/2019

DATE OF COMPLETION : 17/10/2019

SAMPLE DESCRIPTION : Wall Coating Product labeled as -

Sa. No.	Sample Description	Other details
1.	Apcothane WB 200 – **Reacted**	-
Untreated – Lab Control		

Name of Test:

Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber

Test Standard:

ASTM D 3273: 2016

Scope:

a. This test method describes a small Environmental chamber and the condition of operation to evaluate reproducibly in 4 week period the relative resistance of Paint film to surface mold fungi, mildew growth in a severe interior environment.

b. This test method can also be used to evaluate the comparative resistance of interior coating to accelerated mildew growth. Performance at a certain rating does not imply any specific period of time for a fungal free coating. However, a better rated coating nearly always performs better in actual end use.

c. This method is useful in estimating the performance of coating designed for Interior environment that promote Mold growth and evaluating compounds that may inhibit such growth and the aggregate levels for their use.

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Test Sample Preparation:

Panels of gypsum board 3 x 4 inches, Painted from all the sides

Test Fungus used:

Mixed spore suspension of –

1. Aspergillus niger ATCC 6275
2. Penicillium citrinum ATCC 9849
3. Aurobasidium pullulans ATCC 9348

Incubation conditions:

An Environmental Chamber capable of maintaining relative humidity of 95 ± 3% at a temperature of 32.5 ± 1^0 C containing good quality green house-grade active soil suitable for plant propagation.

Procedure:

1. Coated and Pre conditioned Painted panels were placed horizontally for spraying fungus inoculum.
2. Mixed fungus with final spore count of approximately 1.0 x 10^5 spores/ ml was used for spraying on specimen. Standardisation of spores was carried out using Neubar chamber.
3. Fungal suspension was sprayed on Test material as well as Control samples. The Test/ Control panels were incubated with sufficient spacing to allow free circulation of air and to prevent contact between panels or with wall surfaces. Replicates Panels were hung vertically 3 inches above inoculated soil and incubated in Test chamber at 32°C with 95% relative humidity for a period for 4 weeks.

Rating:

Microscopic assessments were made at 4 weeks using Rating scale. Panels were rated for Mold growth each week for 4 weeks on a 0 to 10 rating scale by estimating the percentage of surface defacement with 10 being No defacement and 0 being complete defaced. Both Test and Non Test fungi were included in rating.

Key:

Results	Rating
0 Defacement	10
1 to 10% Defacement	9
11 to 20% Defacement	8
21 to 30% Defacement	7
31 to 40% Defacement	6
41 to 50% Defacement	5
51 to 60% Defacement	4
61 to 70% Defacement	3
71 to 80% Defacement	2
81 to 90% Defacement	1
91 to 100% Defacement	0

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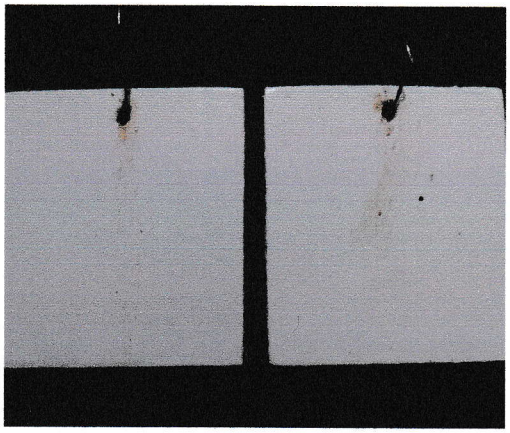

Apcothane WB 200 – **Reacted**

Results:

At the end of 4 weeks Incubation period, following observations were recorded:-

Specimen	Growth Rating	
	Set I	Set II
Apcothane WB 200 – **Reacted**	10	10
Untreated Lab. Control	2	3

For BIOTECH TESTING SERVICES

Dr Shilpa U. Nair
Quality Manager
(Authorized Signatory)

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