CERTIFICATE OF ANALYSIS

Customer Name &Address	**JSW Paints Pvt. Ltd.** Village - Vasind, Tal. - Shahapur, Dist. - Thane, Maharashtra - 421601	**Study Code**	662DAQG9731/R0
		Report Date	14.06.2024
		Total Number of Pages	02
		Customer Ref No.	662
		Any other Information	-

Sample Details:

Project Name	Evaluation on Repellence effect of Painted asbestos sheet sample against mosquito species by using Y – tube olfactometer under laboratory conditions
Sample Name	Aged Pixa Elegant Interiors Matt Aged Pixa Elegant Interiors Silk Aged Blank Paint
Sample Received Date	10.04.2024
Quantity	0.5 Liter
Batch No.	Aged Pixa Elegant Interiors Matt – SNT-070324 Aged Pixa Elegant Interiors Silk - TBS-150224/II Aged Blank Paint – Not Available
Manufacturing Date	Aged Pixa Elegant Interiors Matt – March - 2024 Aged Pixa Elegant Interiors Silk – February - 2024 Aged Blank Paint – Not Available
Expiry Date	Aged Pixa Elegant Interiors Matt – 3 Yrs. (Shelf life) Aged Pixa Elegant Interiors Silk – 3 Yrs. (Shelf life) Aged Blank Paint – Not Available
Project Code at Ross	662DAQG3722
Sample Code at Ross	Aged Pixa Elegant Interiors Matt-_662DAQG_1_3722 Aged Pixa Elegant Interiors Silk-662DAQG_2_3722 Aged Blank Paint-662DAQG_4_3722
Experiment Start Date	17.04.2024
Experiment End Date	19.04.2024
Description	Evaluation on Repellence by Y – tube olfactometer

Methodology:

Study was conducted on the paint sample aged by sponsor in accelerated storage condition at 54 ± 2 °C for 14 days using Olfactometer kept in Study Chamber. 10 cm diameter asbestos sheet was cut in to circular shape and painted. After drying Pixa Elegant Interiors Matt and Pixa Elegant Interiors Silk painted sheets was compared with Untreated control and blank painted asbestos sheets separately. Repellency effect was assessed after painting.

Ross Lifescience Limited
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Mumbai Office : 315, The Enterprises Soc. Ltd., Prabhadevi Industrial Estate, SVS Road, Prabhadevi, Mumbai 400025 Tel.: +91 22 35574090
Email: info@rosslife.net | www.rosslifescience.in | **GSTIN: 27AADCR8508G1Z9 | CIN: U24239PN2008PLC131354**

20 mosquitoes of three species were released in olfactometer and acclimatized for 15 minutes. The samples were kept in treated and untreated leg and number of mosquitoes migrated towards each leg was observed for 15 minutes and observation were recorded. Three species of mosquitoes *Aedes aegypti, Culex quinquefasciatus and Anopheles stephensi* were tested against the painted panel with three replicates separately. Data was pooled and a mean percentage repellency was calculated.

Results:

The test item Pixa Elegant Interiors Matt and Pixa Elegant Interiors silk found to be effective in terms of repellency against mosquitoes *Aedes aegypti, Culex quinquefasciatus and Anopheles stephensi* when tested by using Y - tube olfactometer on 0 day under laboratory conditions. Results are given in below Table.

Table 1: Percentage repellency data of three species of mosquitoes in Olfactometer - 0 Day assessment

Sample Compare with	*Repellency (%)		
	Aedes aegypti	***Culex quinquefasciatus***	***Anopheles stephensi***
Pixa Elegant Interiors Matt panel over Untreated Control panel	59.11	57.32	61.52
Pixa Elegant Interiors Matt panel over Blank Paint-panel	51.52	54.46	52.51
Pixa Elegant Interiors Silk panel over Untreated Control	74.45	72.80	70.05
Pixa Elegant Interiors Silk panel over Blank Paint-panel	55.29	51.17	53.68

***: -Average of three replicates.**

Sushant 14.06.2024

Mr. Sushant Suryawanshi
STUDY DIRECTOR

Rishi la Mish 14.06.2024

Mr. Rishi Kumar Mishra
TEST FACILITY MANAGEMENT

Kishor 14.06.24.

Mr. Kishor Raut
AUTHORIZED SIGNATORY

*******End of report*******

CERTIFICATE OF ANALYSIS

Customer Name &Address	**JSW Paints Pvt. Ltd.** Village - Vasind, Tal. - Shahapur, Dist. - Thane, Maharashtra - 421601	**Study Code**	662DAQG9731/R1
		Report Date	14.06.2024
		Total Number of Pages	03
		Customer Ref No.	662
		Any other Information	-

Sample Details:

Project Name	Evaluation on Repellence effect of Painted asbestos sheet sample against mosquito species by using Y – tube olfactometer under laboratory conditions
Sample Name	Aged Pixa Elegant Interiors Matt Aged Pixa Elegant Interiors Silk Aged Blank Paint
Sample Received Date	10.04.2024
Quantity	0.5 Liter
Batch No.	Aged Pixa Elegant Interiors Matt – SNT-070324 Aged Pixa Elegant Interiors Silk - TBS 150224/II Aged Blank Paint – Not Available
Manufacturing Date	Aged Pixa Elegant Interiors Matt – March - 2024 Aged Pixa Elegant Interiors Silk – February - 2024 Aged Blank Paint – Not Available
Expiry Date	Aged Pixa Elegant Interiors Matt – 3 Yrs. (Shelf life) Aged Pixa Elegant Interiors Silk – 3 Yrs. (Shelf life) Aged Blank Paint – Not Available
Project Code at Ross	662DAQG3722
Sample Code at Ross	Aged Pixa Elegant Interiors Matt-_662DAQG_1_3722 Aged Pixa Elegant Interiors Silk-662DAQG_2_3722 Aged Blank Paint-662DAQG_4_3722
Experiment Start Date	17.04.2024
Experiment End Date	17.05.2024
Description	Evaluation on Repellence by Y – tube olfactometer

Methodology:

Study was conducted on the paint sample aged by sponsor in accelerated storage condition at 54 ± 2 °C for 14 days using Olfactometer kept in Study Chamber. 10 cm diameter asbestos sheet was cut in to circular shape and painted. After drying Pixa Elegant Interiors Matt and Pixa Elegant Interiors Silk painted sheets was compared with Untreated control and blank painted asbestos sheets separately.

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Email: info@rosslife.net | www.rosslifescience.in | **GSTIN: 27AADCR8508G1Z9** | **CIN: U24239PN2008PLC131354**

The painted panels were subjected to accelerated storage condition at 54 ± 2 °C for 7days. The painted panel repellency effect was assessed on Day 0 before storage and Day 7 after storage at 54 ± 2 °C in Accelerated storage conditions. 20 mosquitoes of three species were released in olfactometer and acclimatized for 15 minutes. The samples were kept in treated and untreated leg and number of mosquitoes migrated towards each leg was observed for 15 minutes and observation were recoded. Three species of mosquitoes *Aedes aegypti, Culex quinquefasciatus and Anopheles stephensi* were tested against the painted panel with three replicates separately. Data was pooled and a mean percentage repellency was calculated.

Results:

The test item Pixa Elegant Interiors Matt and Pixa Elegant Interiors silk found to be effective in terms of repellency against mosquitoes *Aedes aegypti, Culex quinquefasciatus and Anopheles stephensi* when tested by using Y - tube olfactometer on 0 day, 7 day under laboratory conditions. Results are given in below Table.

Table 1: Percentage repellency data of three species of mosquitoes in Olfactometer - 0 Day assessment

Sample Compare with	*Repellency (%)		
	Aedes aegypti	***Culex quinquefasciatus***	***Anopheles stephensi***
Pixa Elegant Interiors Matt panel over Untreated Control panel	59.11	57.32	61.52
Pixa Elegant Interiors Matt panel over Blank Paint-panel	51.52	54.46	52.51
Pixa Elegant Interiors Silk panel over Untreated Control	74.45	72.80	70.05
Pixa Elegant Interiors Silk panel over Blank Paint-panel	55.29	51.17	53.68

***: -Average of three replicates.**

Table 2: Percentage repellency data of three species of mosquitoes in Olfactometer – 7 Day assessment

Sample Compare with	*Repellency (%)		
	Aedes aegypti	*Culex quinquefasciatus*	*Anopheles stephensi*
Pixa Elegant Interiors Matt panel over Untreated Control panel	45.00	43.21	51.15
Pixa Elegant Interiors Matt panel over Blank Paint-panel	40.95	42.31	41.94
Pixa Elegant Interiors Silk panel over Untreated Control	61.45	57.25	57.14
Pixa Elegant Interiors Silk panel over Blank Paint-panel	43.24	41.88	41.41

***: -Average of three replicates.**

Note: Accelerated storage procedure as per MT 46.4 CIPAC Handbook Volume-P, the products being stable under accelerated storage conditions at 54±2°C for 14 days, a shelf life of at least 2 years is expected.

Sushant 14.06.2024	Rishi K. Mishra 14.06.2024	14.06.2024
Mr. Sushant Suryawanshi	**Mr. Rishi Kumar Mishra**	**Mr. Kishor Raut**
STUDY DIRECTOR	**TEST FACILITY MANAGEMENT**	**AUTHORIZED SIGNATORY**

*******End of report*******

CERTIFICATE OF ANALYSIS

Customer Name &Address	**JSW Paints Pvt. Ltd.** Village - Vasind, Tal. - Shahapur, Dist. - Thane, Maharashtra - 421601	**Study Code**	662DAQG9731/R2
		Report Date	14.06.2024
		Total Number of Pages	03
		Customer Ref No.	662
		Any other Information	-

Sample Details:

Project Name	Evaluation on Repellence effect of Painted asbestos sheet sample against mosquito species by using Y – tube olfactometer under laboratory conditions
Sample Name	Aged Pixa Elegant Interiors Matt Aged Pixa Elegant Interiors Silk Aged Blank Paint
Sample Received Date	10.04.2024
Quantity	0.5 Liter
Batch No.	Aged Pixa Elegant Interiors Matt – SNT-070324 Aged Pixa Elegant Interiors Silk - TBS-150224/II Aged Blank Paint – Not Available
Manufacturing Date	Aged Pixa Elegant Interiors Matt – March - 2024 Aged Pixa Elegant Interiors Silk – February - 2024 Aged Blank Paint – Not Available
Expiry Date	Aged Pixa Elegant Interiors Matt – 3 Yrs. (Shelf life) Aged Pixa Elegant Interiors Silk – 3 Yrs. (Shelf life) Aged Blank Paint – Not Available
Project Code at Ross	662DAQG3722
Sample Code at Ross	Aged Pixa Elegant Interiors Matt-_662DAQG_1_3722 Aged Pixa Elegant Interiors Silk-662DAQG_2_3722 Aged Blank Paint-662DAQG_4_3722
Experiment Start Date	17.04.2024
Experiment End Date	24.05.2024
Description	Evaluation on Repellence by Y – tube olfactometer

Methodology:

Study was conducted on the paint sample aged by sponsor in accelerated storage condition at 54 ± 2 °C for 14 days using Olfactometer kept in Study Chamber. 10 cm diameter asbestos sheet was cut in to circular shape and painted. After drying Pixa Elegant Interiors Matt and Pixa Elegant Interiors Silk painted sheets was compared with Untreated control and blank painted asbestos sheets separately.

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Email: info@rosslife.net | www.rosslifescience.in | **GSTIN: 27AADCR8508G1Z9** | **CIN: U24239PN2008PLC131354**

The painted panels were subjected to accelerated storage condition at 54 ± 2 °C for 14 days. Repellency effect was assessed on Day 0 before storage, Day 7 and Day 14 after storage at 54 ± 2 °C in Accelerated storage condition after painting. 20 mosquitoes of three species were released in olfactometer and acclimatized for 15 minutes. The samples were kept in treated and untreated leg and number of mosquitoes migrated towards each leg was observed for 15 minutes and observation were recoded. Three species of mosquitoes *Aedes aegypti, Culex quinquefasciatus and Anopheles stephensi* were tested against the painted panel with three replicates separately. Data was pooled and a mean percentage repellency was calculated.

Results:

The test item Pixa Elegant Interiors Matt and Pixa Elegant Interiors silk found to be effective in terms of repellency against mosquitoes *Aedes aegypti, Culex quinquefasciatus and Anopheles stephensi* when tested by using Y - tube olfactometer on 0 day, 7 day and 14 day under laboratory conditions. Results are given in below Table.

Table 1: Percentage repellency data of three species of mosquitoes in Olfactometer - 0 Day assessment

Sample Compare with	*Repellency (%)		
	Aedes aegypti	*Culex quinquefasciatus*	*Anopheles stephensi*
Pixa Elegant Interiors Matt panel over Untreated Control panel	59.11	57.32	61.52
Pixa Elegant Interiors Matt panel over Blank Paint-panel	51.52	54.46	52.51
Pixa Elegant Interiors Silk panel over Untreated Control	74.45	72.80	70.05
Pixa Elegant Interiors Silk panel over Blank Paint-panel	55.29	51.17	53.68

***: -Average of three replicates.**

Table 2: Percentage repellency data of three species of mosquitoes in Olfactometer – 7 Day assessment

Sample Compare with	*Repellency (%)		
	Aedes aegypti	*Culex quinquefasciatus*	*Anopheles stephensi*
Pixa Elegant Interiors Matt panel over Untreated Control panel	45.00	43.21	51.15
Pixa Elegant Interiors Matt panel over Blank Paint-panel	40.95	42.31	41.94
Pixa Elegant Interiors Silk panel over Untreated Control	61.45	57.25	57.14
Pixa Elegant Interiors Silk panel over Blank Paint-panel	43.24	41.88	41.41

***: -Average of three replicates.**

Table 3: Percentage repellency data of three species of mosquitoes in Olfactometer – 14 Day assessment

Sample Compare with	*Repellency (%)		
	Aedes aegypti	*Culex quinquefasciatus*	*Anopheles stephensi*
Pixa Elegant Interiors Matt panel over Untreated Control panel	20.25	23.49	27.04
Pixa Elegant Interiors Matt panel over Blank Paint-panel	25.83	26.78	22.22
Pixa Elegant Interiors Silk panel over Untreated Control	35.67	36.47	36.97
Pixa Elegant Interiors Silk panel over Blank Paint-panel	23.62	30.34	26.17

***: -Average of three replicates.**

Note: Accelerated storage procedure as per MT 46.4 CIPAC Handbook Volume-P, the products being stable under accelerated storage conditions at 54±2°C for 14 days, a shelf life of at least 2 years is expected.

Sushant 14.06.2024	Rishi for Mis 14.06.2024	14.06.2024.
Mr. Sushant Suryawanshi	**Mr. Rishi Kumar Mishra**	**Mr. Kishor Raut**
STUDY DIRECTOR	**TEST FACILITY MANAGEMENT**	**AUTHORIZED SIGNATORY**

*******End of report*******