 <p><b>SAMRAT</b> HPL — Inspired by Nature —</p>	<b>SAMRAT HPL COMPACT</b>	Revision : 00
	TEST REPORT	Date : 11.03.2024

**Resistance of Samrat Hpl to airborne chemical stresses**

Air and rain contain natural and manmade chemicals, such as :

- Carbon dioxide CO<sub>2</sub>
- Sulphur Oxides SO<sub>x</sub>
- Nitrous gases NO<sub>x</sub>
- Hydrogen chloride HCl


Samrat Hpl offer protection against weather and are largely resistant to acid rain containing one or more of the above chemicals.

<b>Test Description :</b>	<b>To study effect on Décor Surface of Samrat Hpl Compact Compact Laminate-Clads upon immersion in 10% HCl for 24 hours.</b>
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S. No.	Details of sampling and test	Particulars
1.	Sample Size/ Nos. per variant	100mm X 100 mm/ Four each
2.	Thickness of samples	6.0mm
3.	Decor description /Finis	Vermilion Red (9275) Suede Finish Arch Wood (9108) Suede Finish
4.	Manufacture Standard	EN 438-Part 6 2016, Grade EDF
5.	Test Start Date	08.03.2024, 11.30 AM
6.	Test Completion Date	11.03.2024, 11.30 AM
7.	Sampling Method	Random From Production
8.	Conditioning	None
9.	Laboratory Environment	Temperature:25° ±2°C Relative Humidity, RH 50± 5%
10.	Discipline	Chemical Testing

**Samples' surface appearance before and after the test:**

Sample before immersion	Sample after immersion	Remark
		No Change in surface appearance of the décor
		No Change in surface appearance of the décor

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**Test Results:**

SL. No	Particulars of test	Test condition	Test Method	Observation		
				Time	#9275 Suede	#9108 Suede
01	Resistance to immersion in 10% HCl solution	Observe the sample specimen for appearance for a total test Duration of 24 hours –on 8 hourly basis	In house. Each sample is immersed 50mm into the test solution			
				After 8 hours	No visible changes in appearance and tested surface area is indistinguishable from the adjacent unexposed portion.	No visible changes in appearance and tested surface area is indistinguishable from the adjacent unexposed portion
				After 16 hours	No visible changes in appearance and tested surface area is indistinguishable from the adjacent unexposed portion.	No visible changes in appearance and tested surface area is indistinguishable from the adjacent unexposed portion
				After 24 hours	No visible changes in appearance and tested surface area is indistinguishable from the adjacent unexposed portion.	No visible changes in appearance and tested surface area is indistinguishable from the adjacent unexposed portion

**Conclusion : It is Demonstrated that in a 24-hour test with 10% Hydrochloric Acid there is no visible changes in the surface appearance of the panel.**

Tested by : **Sukesh Jangir**

Checked by : **Ankish Kumar**

Validated & Approved by : **GSRA Sharma**