

Laboratory **Quality Laboratory, German Polymers and Coatings (PVTE) Limited,  
S. No. 123, Rajiv Gandhi Salai (OMR), Kandhanchavadi, Tambaram  
Tk, Chennai, Tamil Nadu**

Accreditation Standard **ISO/IEC 17025: 2005**

Certificate Number **TC-8064**

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Validity **03.11.2018 to 02.11.2020**

Last Amended on --

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
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### CHEMICAL TESTING

I.	<b>PAINTS &amp; SURFACE COATINGS</b>			
1.	<b>Paints, Enamels, Varnishes and their Allied Products</b>	Brushing test	IS 101 (Part 1/Sec 4)	Qualitative
		Consistency test	IS 101 (Part 1/Sec 5)	10 sec to 200 sec
		Flash point	IS 101 (Part 1/Sec 6)	15°C to 80°C
		Mass per 10 liters	IS 101 (Part 1/Sec 7)	(1 kg to 50 kg)/10 Liters
		Water content test	IS 101 (Part 2/Sec 1)	0 to 10 ml
		Volatile Matter	IS 101 (Part 2/Sec 2)	1 % to 99 %
		<b>Drying time</b>	IS 101 (Part 3/Sec 1)	
		Surface Dry		5 Minutes to 4 Hours
		Hard Dry		3 Hours to 24 Hours
		Tack free		4 Hours to 7 Days
		Dry Film Thickness	IS 101 (Part 3/Sec 2)	0.1 µm to 500 µm
		Finish	IS 101 (Part 3/Sec 4)	Qualitative
		Fineness of Grind	IS 101 (Part 3/Sec 5)	1 µm to 100 µm
		Opacity	IS 101 (Part 4/Sec 1)	80 Square meters to 220 Square meters
		Colour (Visual)	IS 101 (Part 4/Sec 2)	Qualitative
		Light fastness test	IS 101 (Part 4/Sec 3)	50 Hours to 1000 Hours
		Gloss at 60°	IS 101 (Part 4/Sec 4)	0.1 to 100
		Hardness test	IS 101 (Part 5/Sec 1)	5B to 9H
		Flexibility (Conical Mandrel)	IS 101 (Part 5/Sec2)	Diameter (6.25 mm to 32 mm)
		Adhesion	IS 101 (Part 5/Sec2)	1 mm and 2 mm
Impact resistance	IS 101 (Part 5/Sec 3)	30 cm to 60 cm		
Resistance to Humidity under Condensation & Salt Spray	IS 101 (Part 6/Sec 1)	24 Hours to 1000 Hours		
Keeping Properties	IS 101 (Part 6/Sec 2)	3 months to One year		
Accelerated Weathering Test	IS 101 (Part 6/Sec 5)	50 Hours to 1000 Hours		

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		Resistance to Water	IS 101 (Part 7/Sec 1) Appendix A of IS 3585	24 Hours to 1 Week 24 Hours to 72 Hours
		Resistance to Liquids	IS 101 (Part 7/Sec 2)	24 Hours to 1 Week
		Resistance to Heat	IS 101 (Part 7/Sec 3) Annex B of IS 13183	1 Hour to 72 Hours
		Pigment Content	IS 101 (Part 8/Sec 2)	1 % to 99 %
		Non-Volatile Matter		
		Ash Content	IS 101 (Part 8/Sec 3)	0 to 99 %
		Phthalic Anhydride	IS 101 (Part 8/Sec 4)	0 to 50 %
		Lead Restriction Test	IS 101 (Part 8/Sec 5)	0 to 1 %
		Volume Solid	IS 101 (Part 8/Sec 6)	1 to 100 %
		Acid Value	IS 101 (Part 9/Sec 1)	(1 to 50) mg KOH/g
		Rosin Test	IS 101 (Part 9/Sec 2)	Qualitative
		Durability Test	Annex C of IS 2932 (Part 1)	3 Months to One Year
		Resistance to Acid	Annex D of IS 2932 (Part 1)	1 Hour to 72 Hours
		Resistance to Alkali	Annex E of IS 2932 (Part 1)	1 Hour to 24 Hours
		Accelerated storage stability	Annex F of IS 2932 (Part 1)	Up to 96 hours
		Determination of chromic anhydride	Annex B of IS 2074	0 to 50 %
		Zinc oxide		
		Zinc Phosphate content	Annex B of IS 12744	0 to 25 %