



# National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



## SCOPE OF ACCREDITATION

**Laboratory** Kulkarni Laboratory & Quality Management Services, E-1, Omega Heritage, DSK Vishwa Road, Dhayari, Pune, Maharashtra

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

**Certificate Number** TC-7556 (in lieu of T-2201)


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**Validity** 05.08.2018 to 04.08.2020

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
III.	<b>PAINTS &amp; SURFACE COATING</b>			
1.	<b>Paints &amp; Enamels</b>	Consistency by Flow Cup	IS 101-Amendment 2 (Part I) Section. 5	30s to 200s
		Flash point	IS 101-(Part I) Section. 6	10 <sup>0</sup> C to 80 <sup>0</sup> C
		Mass per 10 Lit.	IS 101-(Part I) Section. 7 ASTM D-1475	6 to 18
		Water content by Dean & Stark, % Karl Fischer method	IS 101-(Part 2) Section. 1 ASTM D 4017	0.5 % to 5.0 % 0.005 % to 5 %
		Volatile matter	IS 101-(Part 2) Section. 2 ASTM D 2369	20 % to 70 %
		Drying time in Minutes Surface dry	IS 101-Amendment 2 (Part 3) Section. 1 ASTM D 1640-14	1 min to 200 min
		Hard dry	IS 101-Amendment 2 (Part 3) Section 1 ASTM D 1640	1 min to 1200 min
		Tack free	IS 101-Amendment 2 (Part 3) Section 1	1 min to 1500 min
		Film thickness in micron	IS 101-(Part 3) Section 2 ASTM D 7091	1 μ to 30 μ
		Finish	IS 101-Amendment 3 (Part 3) Section 4	Qualitative (Visual observation)
		Flexibility & adhesion (Bend Test)	IS 101-(Part 5) Section 2 ASTM D:522	Qualitative (Visual observation)
		Resistance to humidity	IS 101-Amendment 3 (Part 6) Section1 ASTM D:2247	Qualitative (Visual observation)
		Keeping quality	IS 101 (Part 6) Section 2	Qualitative (Visual observation)
		Resistance to water	IS 101(Part 7) Section 1	Qualitative (Visual observation)

  
Nitin Garg  
Convenor

  
N. Venkateswaran  
Program Manager



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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Resistance to liquids, petroleum solvents & oils	IS 101 Amendment 1 (Part 7) Section 2	Qualitative (Visual observation)
		Resistance to heat	IS 101 Amendment 1 (Part 7) Section 3	Qualitative (Visual observation)
		Resistance to Acids & Alkalies	IS 2932 (Part 7) Section 5	Qualitative (Visual observation)
		Resistance to bleeding of pigment	IS 101 Amendment 1 (Part 7) Section 4	Qualitative (Visual observation)
		Pigments & Non volatile Matter	IS 101 Amendment 4 (Part 8) Section 2 ASTM D 2698	1 % to 75 %
		Ash content	IS 101 (Part 8) Section. 3	10 % to 60 %
		Lead Restriction	IS 101 Amendment 1 (Part 8) Section. 5 IS 6947 (Part III)-2009 Amendment 1	0.10 % to 5.0 %
		Volume Solids	IS 101 (Part 8) Section 6 ASTM D 2697	10 % to 50 %
		Fineness of Grind	IS 101: (Part 3) Section 5 ASTM D 1210	Upto 100
		Gloss at 60°	IS 101 (Part 4) Section 4 Amendment 1 ASTM D 523	0.1 to 99
		Scratch Hardness test	IS 101: (Part 5) Section 2	Qualitative (Visual observation)
		Adhesion by cross cut test	ASTM D-3359 IS 101: (Part 5) Section 2	Qualitative (Visual observation)
		Impact Resistance	IS 101: (Part 5) Section 3 ASTM D 2794	Qualitative (Visual observation)
		Salt spray test	ASTM B-117 IS (Part 6) Section 1 ASTM 1654 ISO:9227-2017 JSS:55555	Qualitative (Visual observation)

  
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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Accelerated storage stability	Annex-D IS 168 Revision 3	Qualitative (Visual observation)
		Calcium compounds (as CaCO <sub>3</sub> ), percent By mass on dry pigment, Max.	App. A of IS 138 Revision:3	0.1 % to 100 %
		Argillaceous matter	JSS 8010:68 Rev.3 Appendix D	1 % to 15 % (Percent by Mass)
		Pencil Hardness	IS 101:(Part 5) Section1 ASTM D:3363	Qualitative (Visual observation)
		Pot life	IS 13213 Annex 'D' IS 13799	1h to 5 h
		Residue on Sieve	IS 101:(Part 8) Section 1	0.1 % to 5 % (Percent by Mass)
		Volatile Organic Compound	ASTM D 3960	0.1 % to 10 %
		Pull of test	IS 101:(Part 5) Section 2 ASTM D 4541	Qualitative (Visual observation)
		Pressure test	IS 101:(Part 5) Section 1	Qualitative (Visual observation)
		Print free test	IS 101:(Part 5) Section 4	Qualitative (Visual observation)
		Moisture vapor permeability test	IS 101:(Part 6) Section 3 ASTM D 1653	Qualitative (Visual observation)
		Degradation of coating	IS 101:(Part 6) Section 4	Qualitative (Visual observation)
		Zinc content	IS 14946	1 % to 99 % (Percent by Mass)
		Zinc oxide	IS 6947 (Part III) Amendment 1	1 % to 99 % (Percent by Mass)
		Chromium oxide	IS 6947 (Part III) Amendment 1	1 % to 50 % (Percent by Mass)

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