



Scope of Accreditation for Testing
As per ISO/IEC 17025:2017

CAB Name: MS Testing Laboratory LLP.
Address: A-4/3/19, SSGT Road Industrial Area,
Ghaziabad – 201001, Uttar Pradesh.
Certificate No.: T-0021

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Issue date : 22.07.2025
Validity : 21.07.2029
Amendment date: N/A

S/N	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
Discipline: Chemical Group: Paints & Surface Coating					
1	Paint & Powder Coated sheet, Component & panels, Resin & Varnishes Coatings	Gloss value	1 to 200	IS 101 (P-4/Sec-4) /ASTM D523-14	Permanent
2		Bend test	Qualitative	IS 101 (P-5/Sec-2) /ASTM D522/ISO 1519	Permanent
3		Scratch hardness test	Qualitative	IS 101 (P-5/Sec-2) /ISO 1518 (P-1)	Permanent
4		Pencil Hardness Test	B to 9H	IS 101 (P-5/Sec-1) /ASTM D3363-22	Permanent
5		Resistance to humidity	Qualitative	ISO 6270-1	Permanent
6		Resistance to humidity	Qualitative	ISO 6270-2	Permanent
7		Cupping test	1 to 99 mm	IS 101 (P-5/Sec-2) /ISO 1520	Permanent
8		Pull off adhesion test	1 to 20 Mpa	IS 101 (P-5/Sec-2) /ASTM D4541/ISO 4624	Permanent
9		Cross cut adhesion test	Qualitative	ASTM D3359/IS 101 (P-5/Sec-2)/ISO 2409	Permanent
10	Paint & Powder Coated sheet, Component & panels, Resin & Varnishes Coatings, Ferrous Component	Salt spray test	Qualitative	ASTM B117/ISO 9227/IS 101 (P-6/Sec- 1) /JSS: 8010-65	Permanent
11		Salt spray test	Weight loss: 1 mg to 10000 mg	ASTM B117/ISO 9227/IS 101 (P-6/Sec- 1) /JSS: 8010-65	Permanent
12	Paint & Powder Coated sheet, Component & panels, Resin & Varnishes Coatings	Resistance to humidity	Qualitative	IS 101 (P-6/Sec-1)	Permanent
13		MEK Resistance	Qualitative	ASTM D4752	Permanent
14		Resistance to water	Qualitative	IS 101 (P-7/Sec-1)	Permanent
15		Resistance to liquid	Qualitative	IS 101 (P-7/Sec-2)	Permanent
16		Resistance to Chemical	Qualitative	IS 101 (P-7/Sec-2)	Permanent
17		Heat resistance	Qualitative	IS 101 (P-7/Sec-3)	Permanent
18		Dry Film Thickness	1 µm to 2500 µm	IS 101 (P-3/Sec-2) /ISO 2808	Permanent
19		Impact resistance	Qualitative	IS 101 (P-5/Sec-3) /ASTM D2794/ASTM G14	Permanent
20		Impact resistance	Qualitative	ASTM D2794	Permanent
21		Resistance to Acid/Alkali	Qualitative	IS 13871 Annex C	Permanent



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22		Graffiti Resistance	Qualitative	ASTM D6578-13	Permanent
23		Accelerated weathering test	Qualitative	IS 101 (P-6/Sec-5)	Permanent
24		Chipping Resistance	Qualitative	ASTM D3170-03	Permanent
25	Paints, Primers, Synthetic Enamels, Clear Coats, Plastic Emulsion, Acrylic Emulsion, Putty, Varnishes, Resin, Body Fillers	Consistency	Qualitative	IS: 2074/IS: 2339/IS: 2932/IS: 9862/IS: 133/IS: 168/IS: 104/IS: 158/IS: 164/IS: 12744/IS: 13213/IS: 13238/IS: 15489/IS: 5666/IS: 8662	Permanent
26		Resistance to liquid	Qualitative	IS: 168(Annex D)	Permanent
27		Accelerated Storage Stability	Qualitative	IS: 2932/IS: 8662/IS: 8982/IS: 168/IS: 133/IS: 15489/IS: 2074/IS: 13607	Permanent
28		Fastness to light	Qualitative	IS 101 (P-4/Sec-3)	Permanent
29		Impact Resistance	Qualitative	IS 101 (P-5/Sec-1) /ASTM D2794	Permanent
30		Driers	Qualitative	IS 2074 (Clause 5.1a)	Permanent
31		Resistance to salt spray	Qualitative	IS 2074 (Annex E)	Permanent
32		Resistance to Sea Water	Qualitative	IS 2074 (Annex D)	Permanent
33		Suitable extenders	Qualitative	IS 2074 : (Clause 5.1.1c)	Permanent
34		Chromic anhydride	0.1 % to 10 %	IS 2074 (Annex-B)	Permanent
35		Zinc oxide	0.1 % to 10 %	IS 2074 (Annex-B)	Permanent
36		Zinc Chrome	0.5 to 25 %	IS: 2074 (Annex B)	Permanent
37		Iron content (as Fe ₂ O ₃)	1 % to 70 %	IS 6947 (P-2)	Permanent
38		Durability	Qualitative	IS: 2932 (Annex C)	Permanent
39	Resistance to acid	Qualitative	IS: 2932 (Annex E)	Permanent	
40	Application Properties	Qualitative	IS: 2932 (Clause 6.6)	Permanent	



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41	Paints, Primers, Synthetic Enamels, Clear Coats, Plastic Emulsion, Acrylic Emulsion, Putty, Varnishes, Resin, Body Fillers	Resistance To Alkali	Qualitative	IS: 2932 (Annex F)	Permanent
42		Thinning properties	Qualitative	IS: 2932 (Clause 6.5)	Permanent
43		Durability	Qualitative	IS: 8662 (Annex C)	Permanent
44		Resistance to acid	Qualitative	IS 8662 (Annex D)	Permanent
45		Resistance To Alkali	Qualitative	IS 8662 (Annex E)	Permanent
46		Resistance to petrol-Benzol mixture	Qualitative	IS: 8982 (Annex B)	Permanent
47		Water absorption test	1 mg/cm ² to 1000 mg/cm ²	IS: 8982 (Annex C)	Permanent
48		Resistance to warm water	Qualitative	IS: 8982 (Annex D)	Permanent
49		Resistance to salt water	Qualitative	IS: 8982 (Annex E)	Permanent
50		Durability	Qualitative	IS: 8982 (Annex F)	Permanent
51		Rotational Viscosity	20 to 2000000 m.Pa	ASTM D4878-15	Permanent
52		Calcium compound in dry pigment	0.1 % to 10 %	IS: 8982 (Annex G)	Permanent
53		Barium compound in dry pigment	1 % to 40 %	IS: 8982 (Annex H)	Permanent
54		Green oxide of chromium	0.1 % to 10 %	IS: 8982 (Annex A)	Permanent
55		Stripping test	Qualitative	IS: 9862 (Annex C)	Permanent
56		Resistance to water	Qualitative	IS: 9862 (Annex D)	Permanent
57		Resistance to acid	Qualitative	IS: 9862 (Annex E)	Permanent
58	Resistance to alkali	Qualitative	IS: 9862 (Annex F)	Permanent	
59	Resistance to chlorine	Qualitative	IS: 9862 (Annex G)	Permanent	
60	Resistance to water	Qualitative	IS: 133 (Annex E)	Permanent	



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61	Paints, Primers, Synthetic Enamels, Clear Coats, Plastic Emulsion, Acrylic Emulsion, Putty, Varnishes, Resin, Body Fillers	Chromic anhydride	0.1 % to 25 %	IS 104(Annex-B)	Permanent
62		Zinc oxide	0.1 % to 25 %	IS 104 (Annex-B)	Permanent
63		Zinc chrome	0.2 % to 50 %	IS 104 (Annex-B)	Permanent
64		Resistance to salt spray	Qualitative	IS 104 (Annex-D)	Permanent
65		Stripping test	Qualitative	IS 158 (Annexure-C)	Permanent
66		Resistance to acid	Qualitative	IS 158 (Annexure-D)	Permanent
67		Resistance to alkali	Qualitative	IS 158 (Annexure-E)	Permanent
68		Resistance to heat	Qualitative	IS 158 (Annexure-F)	Permanent
69		Durability	Qualitative	IS 164 (Appendix-C)	Permanent
70		Recoating Properties	Qualitative	IS 164 (Annex E)	Permanent
71	Application	Qualitative	IS 164 (Annex B)	Permanent	
72	Paints, Primers, Synthetic Enamels, Clear Coats, Plastic Emulsion, Acrylic Emulsion, Putty, Varnishes, Resin, Body Fillers	Corrosion Resistance	Qualitative	IS 9844	Permanent
73		Impact resistance	Qualitative	ASTM D2794	Permanent
74		Cross cut adhesion test	Qualitative	ASTM D3359	Permanent
75		Volume Solids	20 % to 98 %	M&C/PCN/100/2024, IS: 101 (P-8/Sec-6)/ IS: 13607	Permanent
76		Accelerated test	Qualitative	M&C/PCN/100/2024 (Appendix V)	Permanent
77		Identification of polyisocyanate	Qualitative	M&C/PCN/100/2024 (Appendix VII)	Permanent



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S/N	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
78		Theoretical coverage	5 m ² /liter to 20 m ² /liter	M&C/PCN/100/2024 (Appendix I)	Permanent
79		Poly isocyanate in hardener	5% to 20 %	M&C/PCN/100/2024 (Appendix VIII)/ISO 11909-07	Permanent
80		Durability	Qualitative	M&C/PCN/100/2024 (Appendix VI) ASTM G154-16	Permanent
81	Paints, Primers, Synthetic Enamels, Clear Coats, Plastic Emulsion, Acrylic Emulsion, Putty, Varnishes, Resin, Body Fillers	<u>Solar Reflectance Performance</u> a) Solar Reflective Index b) Emissivity Index c) Total Solar Reflectance a) Infrared Rejection	10 to 150 0.10 to 5.0 0.10 to 5.0 1 to 100 %	ASTM E1980-24 ASTM C1371-15 ISO 9050-03 ASTM G173-23	Permanent
82		Performance Test	1 to 90 %	M&C/PCN/100/2024 (Appendix XIII)	Permanent
83		Stooping properties	Qualitative	M&C/PCN/100/2024 (Appendix XI)	Permanent
84		Rubbing properties	Qualitative	M&C/PCN/100/2024 (Appendix X)	Permanent
85		Hold out properties	Qualitative	M&C/PCN/100/2024 (Appendix XI)	Permanent
86		Adhesion & compatibility of paint system	Qualitative	M&C/PCN/100/2024 (Appendix XII)	Permanent
87		Keeping Properties	Qualitative	M&C/PCN/100/2024 (Appendix III)	Permanent
88		Zinc phosphate content	1 to 25 %	IS: 12744 (Annex C)	Permanent
89	Accelerated test	Qualitative	IS: 13213 (Annex E)	Permanent	
90	Durability	Qualitative	IS: 13213 (Annex F)	Permanent	



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S/N	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
91		Weight per Epoxy Equivalent	10 to 1000	IS: 9162	Permanent
92		Zinc phosphate content	1 to 25 %	IS: 10897	Permanent
93		Drying time	5 Minutes to 24 hours	IS 15489 Annex D	Permanent
94		Resistance to alkali	Qualitative	IS 15489 Annex F	Permanent
95	Paints, Primers, Synthetic Enamels, Clear Coats, Plastic Emulsion, Acrylic Emulsion, Putty, Varnishes, Resin, Body Fillers	Colour	Qualitative	IS 15489 Annex E	Permanent
96		Recoating Properties	Qualitative	IS 15489 Annex J	Permanent
97		Finish	Qualitative	IS 15489 Annex D	Permanent
98		Water Content	0.1 to 25 %	IS: 2362	Permanent
99		Anti settling agent	Qualitative	By Difference	Permanent
100		Orthophosphoric Acid	0.5 to 10 %	IS: 798	Permanent
101		Fitness to take a coat of primer, cellulose finish	Qualitative	IS: 5666 (Clause 3.8)	Permanent
102		Asbestine	0.1 to 6 %	IS: 66	Permanent
103		Drying time	Qualitative	IS: 5666 (Clause 3.5)	Permanent
104		Fineness of dispersion	Qualitative	IS: 101 (P-3/Sec-5)	Permanent
105		Dry Film Thickness	1 µm to 2500 µm	IS 101 (P-3/sec-2)	Permanent
106		Wet Film Thickness	1 µm to 2500 µm	IS 101 (P-3/sec-2)/ASTM D4414/ISO 2808	Permanent
107		Leafing Value	10 to 80 %	IS: 289	Permanent
108		Aluminium powder	5 to 25 %	IS: 6947 (P-2) Clause 7.0	Permanent



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S/N	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
109	Paints, Primers, Synthetic Enamels, Clear Coats, Plastic Emulsion, Acrylic Emulsion, Putty, Varnishes, Resin, Body Fillers	Consistency	Qualitative	IS 101 (Part-1/ Sec-5)	Permanent
110		Volume Solids	20 % to 98 %	ASTM D5201-05	Permanent
111		Composition (Rosin Test)	Qualitative	IS 101 (Part-9/ Sec-2)	Permanent
112		Drying time (a) Surface Dry (b) Hard Dry (c) Tack free (d) Recoating Time (e) Dry Through	5 Minutes to 24 hours	IS 101 (P-3/Sec-1)/ASTM D1640-14	Permanent
113		Dry Film Thickness	1 µm to 2500 µm	IS 101 (P-3/sec-2)/ASTM D1400	Permanent
114		Flash Point	15 Deg C to 70 Deg C	IS 101(P-1/Sec-6)	Permanent
115		Color	Qualitative	IS 101 (P-4/ Sec-2)(Visual Method)	Permanent
116		Fineness of grind	5 µm to 102 µm	IS 101 (P-3/Sec-5) /ASTM D1210	Permanent
117		Finish	Qualitative	IS 101 (P-3/sec-4)	Permanent
118		Flexibility and Adhesion tests (a) Bend Test (b) Scratch Hardness (c) Cupping test (d) Pull off test (e) Cross cut adhesion test	Qualitative	IS 101 (P-5/sec-2)	Permanent
119	Freedom from coarse particle	Qualitative	IS 101 (Part-1/ Sec-2)	Permanent	
120	Freedom from lead	10 ppm to 10000 ppm	IS 101 (P-8, Sec-5)	Permanent	
121	Gloss value	1 to 200	IS 101 (P-4/Sec4)	Permanent	
122	Humidity under conditions of condensation	Qualitative	IS 101 (P-6/Sec1)	Permanent	
123	Impact resistance test	Qualitative	IS 101 (P-5/Sec-3)	Permanent	



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S/N	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility	
124	Paints, Primers, Synthetic Enamels, Clear Coats, Plastic Emulsion, Acrylic Emulsion, Putty, Varnishes, Resin, Body Fillers	Lead Restriction Test	10 ppm to 10000 ppm	IS 101(P-8/Sec-5)	Permanent	
125		Mass per 10 Liter	8 kg to 16.0 kg	IS 101(P-1/Sec-7)	Permanent	
126		Specific gravity	0.700 to 2.60	ASTM D1475	Permanent	
127		Non Volatile Vehicle	1 % to 50 %	IS 101 (P-8/Sec-2)	Permanent	
128		Pencil Hardness Test	Qualitative : B - 8H	IS 101 (P-5/sec-1)	Permanent	
129		Phthalic Anhydride of Non Volatile Vehicle	5 % to 50 %	IS 101 (P-8/Sec-4)	Permanent	
130		Pigment content	1 % to 70 %	IS 101(P-8/Sec2)	Permanent	
131		Pressure test	Qualitative	IS 101 (P-5/sec-1)	Permanent	
132		Keeping Properties	Qualitative	IS 101 (Part-6/ Sec-2)	Permanent	
133		Residue on sieve	0.02 % to 10 %	IS 101(P-8/Sec-1)	Permanent	
134		Acid Value	0.01 mg KOH/gm to 5 mg KOH/gm	IS 101(P-9, Sec-1)	Permanent	
135		Skin formation	Qualitative	IS 101 (Part-1/Sec-2)	Permanent	
136		Paints, Primers, Synthetic Enamels, Clear Coats, Plastic Emulsion, Acrylic Emulsion, Putty, Varnishes, Resin, Body Fillers	Resistance to bleeding	Qualitative	IS 101 (Part-7/ Sec-4)	Permanent
137			Resistance to salt spray	Qualitative	IS 101 (P-6/sec-1)	Permanent
138	Resistance to water		Qualitative	IS 101 (P-7/Sec-1)	Permanent	
139	Stripping test		Qualitative	IS:101 (P-5/Sec-2)/IS: 101	Permanent	
140	Theoretical coverage		5 m ² /liter to 20 m ² /liter or 0.2 m ² /kg to 10 m ² /kg	IS 101 (P-8/sec- 6)/ASTM D2697/M&C/PCN/100/ 2024 (Appendix I)	Permanent	



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141		Non volatile matter	5 % to 98 %	IS 101 (Part-8/ Sec-2)	Permanent
142		Soil Resistance	Qualitative	MMDTS 20046 (Appendix B)	Permanent
143		Viscosity by ford cup	10 Seconds to 250 Seconds	IS 101 (P- 1/Sec5)/ASTM D1200	Permanent
144		Viscosity by DIN Cup	10 Seconds to 250 Seconds	EN 53211/IS: 101 (P- 1/Sec-5)	Permanent
145		Volatile matter	2 % to 70 %	IS 101(P-2/Sec-2)	Permanent
146		Water Content	0.05 % to 20 %	IS 101(P-2/Sec-1)	Permanent
147		Wet opacity	40 m ² /10 ltr to 400 m ² /10 ltr	IS 101(P-4/Sec1)	Permanent
148		Paints, Primers,Synthetic Enamels, Clear Coats, Plastic Emulsion, Acrylic Emulsion, Putty, Varnishes, Resin, Body Fillers	Volatile organic compound	0.5 to 50 %	IS: 101 (P-2/Se-3) /ASTM D3960-05
149	pH Value		4.0 to 9.0	IS 101(P-1/Sec-8)	Permanent
150	Curing Time		5 hours to 240 hours	IS: 101 (P-3/Sec-1)	Permanent
151	Volume Solids		20 % to 98 %	ASTM D2697-03	Permanent
152	Volume Solids		20 % to 98 %	M&C/PCN/127/2020 (Appendix I)	Permanent
153	Resistance to Chemicals		Qualitative	M&C/PCN/127/2020 (Appendix III)	Permanent
154	Anti Graffiti test		Qualitative	ASTM D6578-13	Permanent
155	Amine Value		10 to 400	ISO 9702/MDTS 48279, Rev04	Permanent
156	Water Resistance		Qualitative	ASTM D2247-15	Permanent
157	Water Resistance		Qualitative	ASTM D870-15	Permanent
158	Abrasion resistance	5 mg to 1000 mg	ASTM D4060-2019	Permanent	



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159		Density	0.8 kg/liter to 2.6 kg/liter	ASTM D1475/ISO 2811	Permanent
160	Paints, Primers, Synthetic Enamels, Clear Coats, Plastic Emulsion, Acrylic Emulsion, Putty, Varnishes, Resin, Body Fillers	Zinc content in DFT	5 % to 98 %	IS 4611	Permanent
161		Zinc content in DFT	5 % to 98 %	ASTM D521-02	Permanent
162		Pot life	0.5 to 24 hours	ISO 9514/IS: 13213/IS: 13238/M&C/PCN/100/ 2024/MDTS 48279, Rev.04	Permanent
163		Drying Time (Touch Dry, Hard Dry, Recoating Time, Curing Time	5 minutes to 24 hours	ASTM D1640-14	Permanent
164		Full cure	5 hours to 240 hours	ASTM D1640-14	Permanent
165		Cathodic Disbondment	0.5 mm to 50 mm	CSA Z245.20.02	Permanent
166		Gloss value	1 to 100	ASTM D523-14	Permanent
167		Bend test	Qualitative	ASTM D522-17	Permanent
168		In service temperature	Minus 40 deg C to 120 deg C	ASTM D2485-22	Permanent
169		High Tempertaure service	50 deg C to 850 deg C	ASTM D2485-22	Permanent
170	Paints, Primers, Synthetic Enamels, Clear Coats, Plastic Emulsion, Acrylic Emulsion, Putty, Varnishes, Resin, Body Fillers	MEK Rub Test	Qualitative	ASTM D5402-19	Permanent
171		Solvent rub	Qualitative	ASTM D4752-20	Permanent
172		Film Thickness	10 to 2000 micron	ASTM D6132-13	Permanent
173		Thixotropic	Qualitative	MDTS 076	Permanent
174		Coverage	0.1 to 1.0 m ² /kg	MDTS 076	Permanent
175		Viscosity	Qualitative	MDTS 076	Permanent



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176		Flash Point	20 to 370 deg C	IS: 1448 (P-21)	Permanent
177		Residue on ignition	1 to 50 %	IS: 101 (P-8/Sec-3)	Permanent
178		Shore A Hardness	1 to 100	ASTM D2240-15	Permanent
179		Shore D Hardness	1 to 100	ASTM D2240-15	Permanent
180		Flexibility	Qualitative	IS: 197(Clause 11)	Permanent
181	Paints, Primers,Synthetic Enamels, Clear Coats, Plastic Emulsion, Acrylic Emulsion, Putty, Varnishes, Resin, Body Fillers	Flash Point	10 to 70 deg C	IS: 197 (Clause 13)	Permanent
182		Volatile matter	1 to 90 %	IS: 197 (Clause 15)	Permanent
183		Ash Content	0.01 to 2.0 %	IS: 197 (Clause 16)	Permanent
184	Paints, Primers,Synthetic Enamels, Clear Coats, Plastic Emulsion, Acrylic Emulsion, Putty, Varnishes, Resin, Body Fillers	Water Soluble chloride	0.001 to 1.0 %	JSS 8010-28	Permanent
185		Stripping test	Qualitative	IS: 197(Clause 12)	Permanent
186		Chemical Resistance	Qualitative	ASTM D543-21	Permanent
187		Drying Time	5 minutes to 24 hours	IS: 197 (Clause 7.0)	Permanent
188		Base Filler	Qualitative	Visual Examination	Permanent
189		Cathodic Disbondment	0.5 mm to 50 mm	ASTM G8-24	Permanent
190		Flexibility	Qualitative	ASTM D522-17	Permanent
191		Impact resistance	1 N.m to 20 N.m	ASTM G14-04	Permanent
192		Chemical resistance	Qualitative	ASTM D543-21	Permanent
193	Paints, Primers,Synthetic	Dielectric strength	2 kv/mm to 50 kv/mm	ASTM D149-20	Permanent



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194	Enamels, Clear Coats, Plastic Emulsion, Acrylic Emulsion, Putty, Varnishes, Resin, Body Fillers	Water absorption	Qualitative	ASTM D570-22	Permanent
195		Adhesion to steel	1 to 20 Mpa	D4541-22	Permanent
196	Paints, Primers, Synthetic Enamels, Clear Coats, Plastic Emulsion, Acrylic Emulsion, Putty, Varnishes, Resin, Body Fillers	Appearance	Qualitative	AWWA C210-24 (Sec-5.5.2)	Permanent
197		Dry Film Thickness	1 µm to 1500 µm	SSPC-PA 2	Permanent
198		Electrical continuity inspection	Qualitative	NACE SP0188	Permanent
199		Immersion & Vapour Phase	Qualitative	AWWA C210-24 (Sec-5.2.1)	Permanent
200		Cyclic Corrosion	Qualitative	ISO 11997-1	Permanent
201	Paints, Primers, Synthetic Enamels, Clear Coats, Plastic Emulsion, Acrylic Emulsion, Putty, Varnishes, Resin, Body Fillers, Thermoplastic Paint	Composition a) Binder b) Glass Beads c) Titanium Dioxide d) Calcium carbonate & Inert Fillers	0.5 to 50 % 0.5 to 50 % 0.5 to 50 % 0.5 to 50 %	BS 3262 Part 1/MORTH/IS: 411	Permanent
202		Daylight Luminance	10 to 70 %	AASHTO M249	Permanent
203		Cracking Resistance at low temperature	Qualitative	MORTH 803.4	Permanent
204		Softening Point, 0C	40 to 200 deg C	ASTM D36	Permanent
205		Flow resistance	2 to 50 %	AASHTO M249	Permanent
206		Yellowness Index	0.01 to 2	AASHTO M249	Permanent
207		Non volatile content	5 % to 98 %	JIS K5601-1-2	Permanent



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S/N	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility	
208	Paints, Primers, Synthetic Enamels, Clear Coats, Plastic Emulsion, Acrylic Emulsion, Putty, Varnishes, Resin, Body Fillers	Condition in container	Qualitative	JIS K 5659 (7.4)	Permanent	
209		Drying Time (Surface dry)	5 Minutes To 24 hours	JIS K5600-3-2	Permanent	
210		Appearance of paint film	Qualitative	JIS K 5600-1-1	Permanent	
211		Colour	Qualitative	JIS K5600-4-3	Permanent	
212		Colour difference (Delta E)	loss	JIS K5600-4-6	Permanent	
213		Volatile Organic Compound	0.5 to 50 %	JIS 5601-4-2	Permanent	
214		Dry film thickness	1 µm to 2500 µm	JIS 5600-1-7	Permanent	
215		Overcoatibility	5 minutes to 24 hours	JIS 5659/ASTM D1640/ IS: 101 (P-3/Sec-1)	Permanent	
216		Flexibility (bend)	Qualitative	JIS K5600-5-1	Permanent	
217		Impact Resistance	Qualitative	JIS K 5600-5-3	Permanent	
218		Interlayer adhesion	1 to 22 M.Pa	JIS K 5600-5-7	Permanent	
219		Resistance to Liquid	Qualitative	JIS K 5600-6-1	Permanent	
220		Paints, Primers, Synthetic Enamels, Clear Coats, Plastic Emulsion, Acrylic	Alkali Resistance	Qualitative	JIS K 5600-6-1	Permanent
221			Acid resistance	Qualitative	JIS K 5600-6-1	Permanent



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S/N	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
222	Emulsion, Putty, Varnishes, Resin, Body Fillers	Resistance to Humidity	Qualitative	JIS K 5600-7-2	Permanent
223		Humidity & cool heat cycling resistance	Qualitative	JIS K 5600-7-4	Permanent
224		Gloss Value	1 to 200	JIS K5600-4-7	Permanent
225		Accelerated Weathering test	Qualitative	JIS K5600-7-7	Permanent
226		Gloss Retention	20 to 99 %	JIS K5600-4-7/IS: 101 (P-4/Sec- 4)/ASTM D523-14	Permanent
227		Salt spray resistance	Qualitative	JIS Z2371	Permanent
228		Pot Life	0.5 to 10 hours	JIS K5600-2-6	Permanent
229		Cross cut adhesion test	Qualitative	JIS K5600-5-6	Permanent
230		Paints, Primers, Synthetic Enamels, Clear Coats, Plastic Emulsion, Acrylic Emulsion, Putty, Varnishes, Resin, Body Fillers	Evaluation of degradation of coating	Qualitative	JIS K5600-8-1/JIS K5600-8-2/JIS K5600-8-3/JIS K5600-8-4/JIS K5600-8-5/JIS K5600-8-6
231	Accelerated weathering and exposure to artificial radiation		Qualitative	JIS K 5600 7-7	Permanent
232		Colour	Qualitative	IS 82	Permanent
233		Odour	Qualitative	IS 14314	Permanent
234		Spot test	Qualitative	IS 14314	Permanent



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S/N	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility	
235	Hydrocarbon Solvent & thinners	Relative density	0.70 gm /ml to 1.00 gm/ml	IS 82	Permanent	
236		Distillatin range	50 deg C to 300 deg C	IS 82	Permanent	
237		Flash point	15 deg C to 70 deg C	IS 101(P-1/Sec-6)	Permanent	
238		Residue on evaporation	1 mg/100 ml to 1000 mg/100 ml	IS 82	Permanent	
239		Hydrocarbon content	2 % to 100 %	IS 14314 Annex B	Permanent	
240		Water content	0.05 % to 5 %	IS 101(P-2/Sec-1)	Permanent	
241		Copper corrosion	Qualitative	IS 82	Permanent	
242		Colour Saybolt	Plus 7 to Plus 30	IS: 1448 (P-14)	Permanent	
243		Colour ASTM	1 to 8	IS: 1448 (P-12)	Permanent	
244		Density	0.70 gm /ml to 1.00 gm/ml	IS: 1448 (P-16)	Permanent	
245		Distillation Range	50 deg C to 300 deg C	IS: 1448 (P-18)	Permanent	
246		Flash Point	15 deg C to 70 deg C	IS 1448 (P-20)	Permanent	
247		Copper strip corrosion	Qualitative	IS: 1448 (P-15)	Permanent	
248		Shoe Polish	Softening Point of NVM	20 to 100 degC	IS: 1746, Annex C	Permanent
249			Ash of NVM	0.05 to 10 %	IS: 1746, Annex D	Permanent
250	PH Value		4 to 12	IS: 1746, Annex E	Permanent	
251	Distillation Range of Volatile portion		70 to 400 deg C	IS: 82/Annex F	Permanent	



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S/N	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility	
252		Flash Point of Volatile portion	minus 10 to 70 deg C	IS: 1448 (P-20)/Annex F	Permanent	
253		Non Volatile matter	5 to 50 %	IS: 1746, Annex G	Permanent	
254		Consistency	Qualitative	IS: 1746, Annex A	Permanent	
255		APPLICABILITY	Qualitative	IS: 1746, Annex B	Permanent	
256		OOZING TEST	Qualitative	IS: 1746, Annex H	Permanent	
257		French Polish	Description	Qualitative	IS: 348	Permanent
258	Composition (Shellac)		1 to 50 %	IS: 348	Permanent	
259	Drying Time		5 minutes to 300 minutes	IS: 197	Permanent	
260	Finish		Qualitative	IS: 197	Permanent	
261	Ash Content		0.01 to 1.0 %	IS: 197	Permanent	
262	Iodine Value		0.5 to 50	IS: 348	Permanent	
263	Colour Index		1 to 25	IS: 348	Permanent	
264	Matter Insoluble in Hot alcohol		0.01 to 5 %	IS: 348	Permanent	
265	Pigments & extenders		pH Value	1 to 9	IS 33	Permanent
266			Acidity and alkalinity	0.01 % to 5 %	IS 33	Permanent
267		Ash Content	0.1 % to 99 %	IS 33	Permanent	
268		Bulk density	0.4 % to 2.5 %	IS 33	Permanent	
269		Colour	Qualitative	IS 33	Permanent	
270		Determination of Calcium Compound	0.1 % to 10 %	IS 44 (Annex-E)	Permanent	
271		Determination of ferrous Iron	0.1 % to 50 %	IS 44 (Annex-C)	Permanent	



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S/N	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
272	Pigments & extenders	Determination of Manganese content	0.1 % to 5 %	IS 44 (Annex-F)	Permanent
273		Determination of Total Iron	1 % to 100 %	IS 44 (Annex-B)	Permanent
274		Ether extract	0.01 % to 5 %	IS 33	Permanent
275		Freedom from Lead	0.01 % to 10 %	IS 33	Permanent
276	Pigments & extenders	Freedom From organic matter	Qualitative	IS 33	Permanent
277		Lead restriction test	0.01 % to 10 %	IS 33	Permanent
278		Loss of ignition	0.1 % to 50 %	IS 44 (Annex G)	Permanent
279		Matter soluble in water	0.01 % to 10 %	IS 33	Permanent
280		Oil absorption	1 ml/100gm to 50 ml/100gm	IS 33	Permanent
281		Relative density	1.0 to 6.5	IS 33	Permanent
282		Carbonate	0.05 to 50 %	IS 33	Permanent
283		Residue on sieve	0.01 % to 20 %	IS 33	Permanent
284		Sum of Water soluble Chloride & Sulphate	0.01 % to 10 %	IS 44 (Annex A)	Permanent
285		Volatile matter	0.01 % to 20 %	IS 33	Permanent
286		Water Soluble chlorides	0.01 % to 10 %	IS 33	Permanent