



# National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



## SCOPE OF ACCREDITATION

**Laboratory** Fine Finish Analytical Laboratory, Fine Finish Organics Pvt. Ltd.,  
Plot No. 76/29, New Chemical Zone, MIDC, Taloja, Dist. Raigad,  
Maharashtra

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

**Certificate Number** TC-6332 (in lieu of T-2068 & T-2069)

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**Validity** 29.09.2017 to 28.09.2019

**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.	PAINTS AND SURFACE COATING			
1.	Paints, Varnishes	Viscosity by Falling Ball Viscometer	ISO 12058-1	0.6 mPas to 75000 mPas
		Epoxy Value	ASTM D 1652 ISO 3001:(E)	1 to 10 Eq/kg
		Amine Value	ISO 9702	10-1500 mg of KOH/g
		Easily Hydrolyzable Chlorine Value	ASTM D 1726	< 1 %
		Moisture Content	IS 2362	≤1 %
		Viscosity	ASTM D 2196 ISO 2555 by Brookfield Viscometer	1.5 mPas to 2,000,000 mPas
		Non-Volatile Content	IS 101 (Part 2/Section 2) IS 10026 Part 2 ASTM D 2697 ISO 3251:(E) ASTM D 1353	Upto 100 %
		Viscosity by Flow Cup	IS 101 (Part 1:Section 5)	11s to 2670 s
		Specific Gravity	IS-9162 ASTM D 891	0.7 to 3.0
		Drying Time in Thin Layer	IS 10026 Part 2; IEC 60464-Part 2	Qualitative
		Ability to cure in Considerable Thickness	IS 10026 Part 2; IEC 60464-Part 2	Qualitative
		Dilution Ability or Compatibility	IS 10026 Part 2; IEC 60464-Part 2	Qualitative
		Reaction of Varnish with Copper	IS 10026 Part 2; IEC 60464-Part 2	Qualitative
		Effect of Varnish on Enameled Wire	IS 10026 Part 2; IEC 60464-Part 2	Qualitative

**Amit Kumar**  
Convenor

**N. Venkateswaran**  
Program Director





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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
		Density	IS 3104 (Part 2) IS 1448-P16 ISO 3675 ASTM D 891 by Hydrometer	0.7 g/cc to 2.0 g/cc
		Density	IS 101 Part 1/Section 7 ASTM D 1298, ASTM D 1475	0.7 g/ml to 3.0 g/ml
		Pencil Hardness	IS 10026 Part 2 / IEC 60464-Part 2	Qualitative
		Resoftening	IS 10026 (Part 2)	Qualitative
		Acid Value	IS 101 Part 9/Section 1	1 mg of KOH/g to 10 mg of KOH/g
		Flash Point	ASTM D 93	20°C to 210°C
		Melting Point	IS 5762	40°C to 300°C
		Scratch Hardness	IS 101 Part 5:Section 2	Qualitative
		Flexibility	IS 101 Part 5:Section 2	Qualitative
		Drying Time	IS 101 Part 3/Section 1	Qualitative
		Glass Transition Temperature (Tg)	ASTM E 1356-03/ ASTM D 3418-03/ ISO 11357-2/ ISO 11357-5	(-)120°C to 500°C
		Specific Heat	ASTM E1952	LOD:0.001 J/(g.K)
		Acetone Extraction	ASTM D 494/ ISO 11667	>0.1%
		Ionic Chlorine content	ISO 21627-1	> 0.0001%
		Enthalpy of polymerization	ASTM D 3417	10J/g to to 1000J/g
		Degree of cure	ASTM E 2160	1% to 100%
		Distillation range	ASTM D 850	25°C to 300°C
		Aldehyde content	IS 5271 IS 3321	0.1 to 99%
		NCO content	ASTM D 5155, ISO 14896-ISO 11909:(E)	0.1 to 40%

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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
		Gel time	ISO 9396/ ASTM D 2471-99/ IS 6746-94/ ISO 2535-01	1 min to 8hrs 40°C to 300 °C
		Relative Viscosity	FFO/DRDO/MSQAA/16-01, dated: 15.02.2016 (GOST 22407)	10sec to 300sec
		Mass fraction of Titanium in calculations on Titanium Dioxide	FFO/DRDO/MSQAA/16-01, dated: 15.02.2016 (TY6-09-11-2119-93)	2% to 25%
		Zinc Content in zinc dust pigment & cured films of Zinc Rich Coating	ASTM D 6580	10% to 99%
		Oxidative Induction Time	ASTM D 3895	1min to 300min
		Arrhenius kinetic constants	ASTM E 698	
		Reaction order	ASTM E 698	1 to 5
		Activation Energy	ASTM E 698	0.05 J/mole to 1000 KJ/mole
		Rate Constant	ASTM E 698	0.001 1/s to 0.02 1/s
II.	<b>PLASTICS AND RESINS</b>			
1.	<b>Plastics, Polymers &amp; Resins</b>	Viscosity by Falling Ball Viscometer	ISO 12058-1	0.6 mPas to 75000 mPas
		Epoxy Value	ASTM D 1652 ISO 3001:(E)	1 Eq/kg to 10 Eq/kg
		Amine Value	ISO 9702	10 mg of KOH/g to 1500 mg of KOH/g
		Easily Hydrolyzable Chlorine Value	ASTM D 1726	< 1 %
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		Ability to cure in Considerable Thickness	IS 10026 Part 2; IEC 60464-Part 2	Qualitative
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		Resoftening	IS 10026 (Part 2)	Qualitative
		Acid Value	IS 101 Part 9/Section 1	1 mg of KOH/g to 10 mg of KOH/g
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