


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

 <p>UKAS TESTING</p> <p>1218</p> <p>Accredited to ISO/IEC 17025:2017</p>	<p>ICI Limited (Part of AkzoNobel Group)</p> <p>Issue No: 037 Issue date: 24 September 2021</p>	
	<p>Materials Characterisation Wexham Road Slough Berkshire SL2 5DS</p>	<p>Contact: Ms D Pearce (no commercial enquiries) Tel: +44 (0)1753 877428 Fax: +44 (0)1753 539855 E-Mail: dawn.pearce@akzonobel.com Website: www.akzonobel.com</p>
<p>Testing performed at the above address only</p>		

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	
<p>PAINTS, VARNISHES and ADHESIVES</p> <p>Resins, additives and intermediates</p>	<p><u>Chemical Tests</u></p> <p>Qualitative and quantitative analysis:</p> <p>Solids</p>	<p>Documented In-House Methods</p> <p>SOM 001.39 by gravimetry</p>	
	<p><u>Spectroscopic Tests</u></p> <p>Identification</p>	<p>Documented In-House Procedures using Fourier Transform-Infra-Red (FT-IR),</p> <p>SOP 004 series using FTIR Spectroscopy</p>	
	<p><u>Chromatographic Tests</u></p> <p>Free monomer and additives</p>	<p>Documented In-House Methods and Procedures using gas, liquid</p> <p>SOP 007 series using GC-FID SOP 007 series using HPLC</p>	
	<p>Solvents</p>	<p>SOP 007 series using GC-FID</p>	
	<p>Solvent and additive identification</p>	<p>SOM 010.24 using GC-MS</p>	



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PAINTS, VARNISHES and ADHESIVES (cont'd)	<u>Physical Tests</u>	
Resins, additives and intermediates (cont'd)	<u>Microscopy</u>	Documented In-House Procedures using Scanning (SEM)
	Particle size of dispersed resin	SOPs 002.35, 38 using SEM
	Morphology of latex particles	SOPs 002.35, 38 using SEM
	<u>Chemical Tests</u>	Documented In-House Methods
Paints	Qualitative and quantitative analysis on in-house and competitive products	
	Pigment in emulsion paints	SOM 001.23 using Gravimetry
	Solids	SOM 001.39 using Gravimetry
	<u>Chromatographic Tests</u>	Documented In-House Methods and Procedures using gas, liquid
	Solvents	SOP 007 series using GC-FID
	Free monomer and additives	SOP 007 series using GC-FID SOP 007 series using HPLC
	Solvents and additives identification	SOM 010.24 using GC-MS
	Biocides as below:	
	- Chloromethylisothiazoline (CMIT) (1 - 20 ppm)	SOM 007.25 using HPLC



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Paints (cont'd)	- Methylisothiazoline (MIT) (1 - 7 ppm)	SOM 007.25 using HPLC
	- Bronopol biocidal additives (10 - 100 ppm)	SOM 007.25 using HPLC
Paints	<u>Physical Tests</u>	
	<u>Microscopy</u>	Documented In-House Procedures
	Particle size of dispersed resin	SOPs 002.35 using SEM
	Morphology of latex particles	SOPs 002.35 using SEM
	Inorganic additives (qualitative)	SOPs 002.35, 36 using SEM/EDX
	Pigments (qualitative)	SOPs 002.35, 36 using SEM/EDX
	Non-film-forming beads	SOP 002.35 using SEM 002.38



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PAINTS, VARNISHES and ADHESIVES (cont'd)	<u>Chromatographic Tests</u>	
Water thinnable emulsion paints	Volatile organic compounds content (onset of boiling \leq 250 °C)	Documented In-House Method SOM 007.23 based on DIN 55649:2000 (BS EN ISO 17895:2005) using GC-FID
Paint Systems and Latex	Quantification of free formaldehyde in the range 0.5-100ppm	Documented in-house method SOM 007.38 using HPLC and 2, 4 DNPH derivitised samples
	<u>Physical Tests (cont'd)</u>	
Water based latex	Acetaldehyde	Documented In-House Method SOM 001.40 using Headspace GC
Water based paint and Latex products	Volatile organic compounds	Documented In-House Method SOM 007.42 based on EN ISO 11890-2:2013 by GC-MS with Thermal desorption, Liquid, headspace and SPME injectors
Paint Defects	Paint defects may be examined by any of the methods delineated above for resins or paints. The procedures given below are specific for the qualitative examination of defects in paint films	
	<u>Microscopy</u>	Documented In-House Procedures using light microscopy (LM), scanning electron microscopy (SEM) and energy dispersive X-ray (EDX) techniques
	Qualitative analysis: Contamination Adhesion failure Blisters	SOP 002 LM/SEM/EDX
	Film thickness Number of layers	SOP 002 series using LM/SEM



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PAINTS, VARNISHES and ADHESIVES (cont'd)	<u>Chemical Tests</u>	
Pigments and paints	Titanium dioxide	SOM 001.59 using Microwave digestion ICP-OES
Pigments	<u>Spectroscopic Tests</u>	Documented In-House Methods and Procedures
Pigments	<u>Physical Tests</u>	
	Qualitative identification of elements (Atomic No 11-92)	SOPs 002.35, 002.36 and 002.38 using SEM/EDX
	Coating on titanium dioxide (qualitative)	SOPs 002.35, 002.36 and 002.38 using SEM/ EDX
	Particle size and shape	SOP 002 series using LM/SEM
	State of dispersion	SOP 002 series using LM/SEM
	Encapsulation	SOP 002.35 using SEM
	Identification	SOP 004 Series using FTIR
POLLUTANTS and EFFLUENTS: ATMOSPHERIC	<u>Chemical Tests</u>	
	Total inhalable dust	Documented in house method SOM 008.03 based on MDHS 14/3 (superseded) using Gravimetry
END		