SINGAPORE LABORATORY
ACCREDITATION SCHEME

ACCREDITED LABORATORY
SAC-SINGLAS

Schedule

Admaterials Technologies Pte Ltd
58 Sungei Kadut Loop
Singapore 729501

Certificate No. : LA-2010-0461-A

Issue No. : 11

Date : 05 June 2017

FIELD OF TESTING : Chemical and Biological Testing

MATERIALS / PRODUCTS TESTED	TESTS / PROPERTIES	STANDARD METHODS / TECHNIQUES / EQUIPMENT
A Aggregates	1. Chloride Content	SS 73: Part 17: 1992 BS 812: Part 117: 1988 BS EN 1744-1: 2009 + A1: 2012 (Clause 7) BS EN 1744-1: 1998 (Clause 7) BS EN 1744-5: 2006
	2. Sulfate Content	SS 73: Part 18: 1992 BS 812: Part 118: 1988 BS EN 1744-1: 2009 + A1: 2012 (Clause 10, 12) BS EN 1744-1: 1998 (Clause 10, 12)
	3. Potential Alkali Silica Reactivity (Chemical Method)	ASTM C289: 2007
	4. Lightweight Organic Contaminator	BS EN 1744-1: 2009 + A1: 2012 (Clause 14.2)
	5. Humus Content	BS EN 1744-1: 2009 + A1: 2012 (Clause 15.1)
	6. Fulvo Acid	BS EN 1744-1: 2009 + A1: 2012 (Clause 15.2)
	7. Loss on Ignition	BS EN 1744-1: 2009 + A1: 2012 (Clause 17)
	8. Fixed Water Content by Ignition Test	ASTM C637-14, Clause 9.1.3.1
B1 Cement, Silica Fume, Ground Granulated Blast Furnace Slag	1. Loss of Ignition 2. Sulfate 3. Residual Insoluble 4. Manganese	BS EN 196-2: 2013 SS 397: Part 2: 1997

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MATERIALS / PRODUCTS TESTED	TESTS / PROPERTIES	STANDARD METHODS / TECHNIQUES / EQUIPMENT
B1 Cement, Silica Fume, Ground Granulated Blast Furnace Slag	5. Silica 6. Iron (III) Oxide 7. Alumunium Oxide 8. Calcium Oxide 9. Magnesium Oxide 10. Chloride 11. Alkali 12. Carbon Dioxide 13. Sulfide	BS EN 196-2: 2013 SS 397: Part 2: 1997
	14. Pozzolanicity	BS EN 196-5: 2011
	15. Heat of Hydration – Solution Method	BS EN 196-8: 2010
	16. Chemical Analysis by X-Ray Fluorescence	BS EN 196-2: 2013
	17. Chemical Analysis of Hydraulic Cement for Specific Analytes a. Insoluble Residue b. Ferric Oxide c. Phosphorus Pentoxide d. Titanium Dioxide e. Ammonium Hydroxide Group f. Magnesium Oxide g. Sulfur Trioxide h. Loss On Ignition i. Silicon Dioxide j. Aluminium Oxide k. Calcium Oxide l. Sodium & Potassium Oxide, Total Alkali m. Chloride	ASTM C114-15
B2 Cement, Fly Ash	1. Reactive Silica	BS EN 196-2: 2013 / (SS EN 197-1: 2014) (BS EN 450-1:2012)
B3 Silica Fume	2. Specific Surface Area – BET method	ISO 9277: 2010
B4 Fly Ash	1. Loss of Ignition 2. Sulfate 3. Residual Insoluble 4. Manganese 5. Silica	BS EN 196-2: 2013 (BS EN 450-1: 2012)

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		6. Iron (III) Oxide 7. Aluminium Oxide 8. Calcium Oxide 9. Magnesium Oxide 10. Chloride 11. Alkali	BS EN 196-2: 2013 (BS EN 450-1: 2012)
C	**Concrete (Hardened Concrete)**	1. Chloride 2. Sulfate 3. Cement Content 4. Silane Content by Py-GC	BS 1881-124:2015 BS EN 14629:2007 BS 1881-124:2015 BS 1881-124:2015 In-House Method ADM/CB/0005:2016
D	**Plaster / Motar / Screed**	1. Mix Composition (i.e. Cement, Lime, Gypsum & Aggregate) 2. Chloride 3. Sulfate	BS 4551 : 2005 + A2:2013
E	**Admixture**	1. Absolute Density at 20°C 2. Conventional Dry Material Content 3. pH Value at 20°C 4. Water Soluble Chloride 5. Alkali Content 6. Silicon Dioxide SiO_2 Content 7. Infrared Analysis	ISO 758: 1976 BS EN 480-8: 2012 ISO 4316: 1977 BS EN 480-10: 2009 BS EN 480-12: 2005 BS EN 196-2: 2013 (procedure 4.5) BS EN 480-6: 2005
F	**Repair Material**		
1	Polymer Modified Cement Motar / Waterproofing Coating	1. Polymer Content 2. Polymer Identification 3. Cement Content	ADM/C&B/001: 2013 ADM/C&B/002: 2010 BS 4551: 2005 + A2: 2013
2	Cementitious Waterproof Membrane	1. Verification of base polymer 2. Chloride Content	ADM/C&B/001: 2013 ADM/C&B/002: 2010 ADM/C&B/003: 2010
3	Waterproofing Coating - for repair to external wall	1. Verification of base polymer Polymer Content	ADM/C&B/002: 2010 ADM/C&B/001: 2013

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4 Non-Cementitious Waterproof Membrane	1. Volatile Content 2. Verification of base polymer	ADM/C&B/001: 2013 ADM/C&B/001: 2013 ADM/C&B/002: 2010
G Building Material		
1 Prepacked Mortar 2 Prepacked Skim Coat	1. } Polymer Content 2. } Product Identification Analysis	} ADM/C&B/001: 2013 } ADM/C&B/002: 2010
3 Prepacked Waterproof Screed 4 Tile Grout	1. Product Identification Analysis 2. Polymer Content	ADM/C&B/002: 2010 ADM/C&B/001: 2013
5 Acrylic Polymer Cementitious Coating	1. Identification of Polymer	ADM/C&B/002: 2010
H Paint	1. Density	SS 5: Part B7: 2013
	2. Non Volatile Matter	SS 5: Part B2: 2013
	3. Paint Dilution Test	ADM/C&B/004:2014
	4. Volatile Organic Compounds	ISO 11890-2:2013
I Metal and Metal Products	Determination of Metal Composition by Optical Emission Spectroscopy	
	1. Carbon and Low Alloy Steels	ASTM E415-15 ASTM A751: 2014a
	2. Stainless Steels	ASTM E1086: 2014 ASTM A751: 2014a

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Approved Signatory

Mr Lu Jin Ping
Mr Julifin
Ms Sherly Wijaya
Ms May Soe Moe

} For All Accredited Tests

Note:

This laboratory is accredited in accordance with the recognised International Standard ISO/IEC 17025. A laboratory's fulfilment of the requirements of ISO/IEC 17025 means the laboratory meets both the technical competence requirements and **management system requirements** that are necessary for it to consistently deliver technically valid test results. The **management system requirements** in ISO/IEC 17025 are written in language relevant to laboratory operations and operate generally in accordance with the principles of ISO 9001.