

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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



0751

Accredited to
ISO/IEC 17025:2017

Tarmac Cement and Lime Limited

Issue No: 048 Issue date: 16 April 2020

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Testing performed at the above address only

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
CEMENT	<u>Chemical Tests</u>	
	Alkali content	BS EN 196-2:2013 - reference method
	Sulfate content – gravimetric method	BS EN 196-2:2013
	Chloride content – Volhard method	BS EN 196-2:2013
	Loss on ignition	BS EN 196-2:2013
	Residue insoluble in hydrochloric acid and sodium carbonate	BS EN 196-2:2013
	Water soluble chromium (VI) content	BS EN 196-10:2016
	Total Organic Carbon	BS EN 13639:2017
	Alkali content	Documented In-House Method UD004 Section M.06.8 – microwave digestion method
	Chloride content	Documented In-House Method UD004 Section M.02.3 – by potentiometric titration
Total Organic Carbon	Documented In-House Method UD004 Section M.10.4 – by induction	
Total Sulfur	Documented In-House Method UD004 Section M.01.9 – by induction	



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CEMENT (cont'd)	<u>Mechanical Tests</u>	
	Free Lime Analysis	Documented In-House Method UD004 Section M.08.3 – by titration
	Flexural strength (loads from 1 to 10 kN)	BS EN 196-1:2016
	Compressive strength (loads from 4 to 200 kN)	BS EN 196-1:2016
	<u>Physical Tests</u>	
	Standard consistence	BS EN 196-3:2016
	Initial setting time	BS EN 196-3:2016
	Soundness	BS EN 196-3:2016
	Fineness - air permeability (Blaine) method	BS EN 196-6:2018
	Preparation of mortar	BS EN 196-1:2016
	Preparation of test specimens (Standard method)	BS EN 196-1:2016
	Conditioning of test specimens	BS EN 196-1:2016
	Preparation of test specimens (Using vibrating table B)	BS EN 196-1:2016 Annex A
Assessment of fines - grading of fillers (air jet sieving)	BS EN 933-10:2009	



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CEMENT – raw materials and finished products (analysis of inorganic materials)	<u>Chemical Tests</u> Aluminium (0-100%) Calcium (0-100%) Iron (III) (0-100%) Magnesium (0-100%) Manganese (0-4.23%) Phosphorus (0-36.36%) Potassium (0-10%) Silica (0-100%) Sodium (0-10%) Strontium (0-100%) Titanium (0-100%) Zinc (0-10%) (Expressed as oxide content)	Documented In-House Method UD004 Section M.09.1 Using X-ray fluorescence spectroscopy
	Loss on ignition in nitrogen	Documented In-House Method UD004 Section M.03.5
LIMESTONE / LIME	<u>Chemical Tests</u> Carbon Dioxide	BS EN 12485:2010
	Available Lime	BS EN 459-2:2010
	<u>Physical Tests</u> Assessment of fines - Methylene Blue Test	BS EN 933-9:2009 + A1:2013
MORTAR	<u>Chemical Tests</u> Insoluble residue and soluble silica content	BS 4551:2005 + A2:2013
	Calcium oxide content	BS 4551:2005 + A2:2013



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Cementitious Materials	Mercury Analysis	Documented In-House Method UD004 Section M.07.2 – AAS Analysis
	Total Alkalis	Documented In-House Method UD004 Section M.06.9 – ICP Analysis
	Water Soluble Alkalis	Documented In-House Method UD004 Section M.07.0 – ICP Analysis
	Trace Element Determination	Documented In-House Method UD004 Section M.07.1 – ICP Analysis
	Antimony (0-0.1) Arsenic (0-0.1) Barium Beryllium Cadmium (0-0.1) Cobalt (0-0.5) Chromium (0-2) Copper (0.8) Manganese (0-5) Molybdenum Nickel (0-5) Lead (0-3) Selenium Tin Tellurium Thallium (0-5) Vanadium (0-0.3) Zinc (Expressed as heavy metals in ppm)	
END		