


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>0751</p> <p>Accredited to ISO/IEC 17025:2017</p>	<h3>Tarmac Cement Limited</h3> <p>Issue No: 051 Issue date: 20 June 2024</p>	
	<p>Cement National Laboratory Yelsway Lane Waterhouses Staffordshire ST10 3AZ</p>	<p>Contact: Simon McCarthy Tel: +44 (0) 1538 309508 Mobile: + 44 (0) 7483171732 E-Mail: simon.mccarthy@tarmac.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
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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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
CEMENT (cont'd)	<u>Chemical Tests</u> (cont'd)	
	Free Lime Analysis	Documented In-House Method UD004 Section M.08.3 – by titration
	<u>Mechanical Tests</u>	
	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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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
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 12485:2017
	Available Lime	BS EN 459-2:2021
	<u>Physical Tests</u> Assessment of fines - Methylene Blue Test	BS EN 933-9:2022
MORTAR	<u>Chemical Tests</u> Insoluble residue and soluble silica content	BS 4551:2005 + A2:2013
	Calcium oxide content	BS 4551:2005 + A2:2013
END		