

FINAL REPORT

CERTIFICATE No.: 26282



Boral Cement Limited

ABN 62 008 528 523

Taylor Avenue New Berrima NSW 2577

Locked Bag 4 New Berrima NSW 2577

T +61 2 4860 2222

TEST CERTIFICATE OF: Geelong Daily Despatch Environment
PRODUCED AT: Boral Cement Limited Geelong
TESTED AT: Berrima Works Laboratory
SAMPLE IDENTIFICATION: GDDNM2403522
DATE DESPATCHED: 7/30/2024

PROPERTY	REQUIREMENTS OF AS 3582.2	RESULT
Insoluble Residue (AS 3583.14)		0.2 %
LOI (AS 3583.3)		0.6 %
SO ₃ (AS 2350.2; TM 10.01.07)		3.1 %
MgO (AS 2350.2)	≤ 15.0 %	4.8 %
Al ₂ O ₃ (AS 2350.2)	≤ 18.0 %	14.4 %
Fe ₂ O ₃ (AS 2350.2)		0.4 %
expressed as FeO *		0.4 %
Mn ₂ O ₃ (AS 2350.2)		0.2 %
expressed as MnO *		0.2 %
Total Alkali (AS 2350.2)		0.4 %
Cl (AS 2350.2)	≤ 0.1 %	< 0.01 %
Fineness passing 45µm sieve (AS 3583.1)		98 %
Fineness Index (AS/NZ 2350.8)		490 m ² /kg

REMARKS

Sampling not carried out by laboratory. Samples tested as received and results only relate to the item tested.

* NATA accreditation does not cover the performance of this service.



Accredited for compliance with ISO/IEC 17025 - Testing

Jason Nairn
National Technical Manager



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Boral Construction Materials
Materials Technical Services

Unit 4, 3-5 Gibbon Road,
Baulkham Hills NSW 2153 Australia
PO Box 400,
Winston Hills NSW 2153

T +61 (02) 9624 9900
boral.com.au

TEST REPORT – MILLED SLAG

CLIENT: BORAL CEMENT – (TECHNICAL)

FILE NO: 50/24

ADDRESS: 39 Delhi Road, North Ryde, NSW 2113

REQUEST NO: 113942

LAB SAMPLE NO: 307517

SOURCE OF SAMPLE: Boral Cement - Geelong

DATE RECEIVED: 06/08/2024

SAMPLE IDENTIFICATION: Enviroment ID # GDDNM2403522 - Date sampled: 30/07/2024

IDENTIFICATION OF CEMENT USED: Boral Cement SL Berrima Ref. 2022

TEST METHOD: AS 3583: Methods of test for supplementary cementitious materials for use with Portland cement

PROPERTY	TEST METHOD	RESULT	DATE TESTED
Relative density	AS 3583.5	2.85	14/08/2024
Relative water requirement	AS 3583.6	101%	15/08/2024
Relative strength 7 days (accelerated)	AS 3583.6	99%	22/08/2024
Relative strength 28 days (standard)	AS 3583.6	99%	12/09/2024

Melody mancenido, Parisa Sowti, Violeta Paicu, Jason Nairn, Mat File, File

Note:

- Sample supplied by the client and tested as received.

Approved signatory

Sam El-Hamawi

Date 16/09/2024

Serial no.

CEM113942.SE.1



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Test results in this Test Report relate only to the samples tested.

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TEST REPORT

CLIENT: BORAL CEMENT – TECHNICAL
39 Delhi Road, North Ryde, NSW 2113.

FILE No.: 50/24

PROJECT: Testing of Environment Sample from Boral Cement – Geelong.

REQUEST No.: 113942

TEST PROCEDURE:

AS 3583.12 – 1991 – Determination of Available Alkali

Laboratory Sample No.: 307517
Date Sampled: 30/07/2024
Date Received: 06/08/2024
Date Tested: 10/09/2024
Sample Description: Environment ID #
GDDNM2403522
Field No.: 1

TEST RESULTS:

Sodium as Na₂O (m/m %) 0.07
Potassium as K₂O (m/m %) 0.05
Available Alkali (m/m %) 0.1

Available Alkali (m/m %) = Na₂O (%) + (0.658 x K₂O %)

Note:

- Sample was provided by the Client and tested as received.

Parisa Sowti, Violeta Paicu, Melody Mancenido, Jason Nairn, Mat.File, File.

Approved signatory

Nanthini Selvadurai

Date 11-09-24 Serial no. CHEM113942.NS.1

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Baulkham Hills NSW 2153 Australia
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Winston Hills NSW 2153

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TEST REPORT

CLIENT: BORAL CEMENT – TECHNICAL
39 Delhi Road, North Ryde, NSW 2113.

FILE No.:50 / 24

PROJECT: Testing of Enviroment Sample from Boral Cement – Geelong.

REQUEST No.: 113942

TEST PROCEDURE: AS 3583.7 – Determination of Sulfide Sulfur content

Laboratory Sample No.: 307517
Date Sampled: 30/07/2024
Date Received: 06/08/2024
Date Tested: 12/08/2024
Sample Description: Enviroment ID #
GDDNM2403522
Field No.: 1

TEST RESULTS:

Sulfide Sulfur as S (%) 0.90

Sample submitted by the Client.

- Sample was provided by the Client.
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Nanthini S
16th August 2024.

Parisa Sowti, Violeta Paicu, Melody Mancenido, Jason Nairn, Mat.File, File.