

FINAL REPORT

CERTIFICATE No.: 25525



Boral Cement Limited

N 62 008 528 523

Taylor Avenue New Berrima NSW 2577

Locked Bag 4 New Berrima NSW 2577

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TEST CERTIFICATE OF: Geelong Daily Despatch Enviroment
PRODUCED AT: Boral Cement Limited Geelong
TESTED AT: Berrima Works Laboratory
SAMPLE IDENTIFICATION: GDDNM2305252
DATE DESPATCHED: 22/11/2023

PROPERTY	REQUIREMENTS OF AS 3582.2	RESULT
Insoluble Residue (AS 3583.14)		0.1 %
LOI (AS 3583.3)		0.0 %
SO ₃ (AS 2350.2; TM 10.01.07)		2.9 %
MgO (AS 2350.2)	≤ 15.0 %	5.7 %
Al ₂ O ₃ (AS 2350.2)	≤ 18.0 %	14.1 %
Fe ₂ O ₃ (AS 2350.2)		0.8 %
expressed as FeO *		0.7 %
Mn ₂ O ₃ (AS 2350.2)		0.1 %
expressed as MnO *		0.1 %
Total Alkali (AS 2350.2)		0.3 %
Cl (AS 2350.2)	≤ 0.1 %	0.01 %
Fineness passing 45µm sieve (AS 3583.1)		99 %
Fineness Index (AS 2350.8)		450 m ² /kg

REMARKS

Sampling not carried out by laboratory. Samples tested as received.

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



Accredited for compliance with ISO/IEC 17025 - Testing

Marc Smith
Technical Services Manager



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TEST REPORT – MILLED SLAG

CLIENT: BORAL CEMENT – (TECHNICAL)

FILE NO: 50/23

ADDRESS: 39 Delhi Road, North Ryde, NSW 2113

REQUEST NO: 109755

LAB SAMPLE NO: 296114

SOURCE OF SAMPLE: Boral Cement - Geelong

DATE RECEIVED: 18/12/2023

SAMPLE IDENTIFICATION: Enviroment ID # GDDNM2305252 - Date sampled: 22/11/2023

IDENTIFICATION OF CEMENT USED: Boral Cement SL Berrima Ref. 2019

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	2.88	19/12/2023
Relative water requirement	AS 3583.6	103%	21/12/2023
Relative strength 7 days (accelerated)	AS 3583.6	97%	28/12/2023
Relative strength 28 days (standard)	AS 3583.6	94%	18/01/2024

Marc Smith, Parisa Sowti, Violeta Paicu, Mat File, File

Note:

- Sample supplied by the client and tested as received.

Approved signatory

Sam El-Hamawi

Date

22/01/24

Serial no.

CEM109755.SE.1





**Boral Construction Materials
Materials Technical Services**

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TEST REPORT

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

FILE No.:50/23

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

REQUEST No.: 109755

TEST PROCEDURE:

AS 3583.12 – 1991 – Determination of Available Alkali

Laboratory Sample No.: 296114
Date Sampled: 22/11/2023
Date Received: 18/12/2023
Date Tested: 24/01/2024
Sample Description: Enviroment ID #
GDDNM2305252
Field No.: 1

TEST RESULTS:

Sodium as Na₂O (%) 0.04
Potassium as K₂O (%) 0.06
Available Alkali (%) 0.1

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

Note:

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

Parisa Sowti, Violeta Paicu, Marc Smith, Mat.File, File.



Approved Signatory

Nanthini Selvadurai

Date 25-01-24 Serial No. CHEM109755.NS.1

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

NATA Accredited Laboratory

Number: 9968



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TEST REPORT

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

FILE No.:50 / 23

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

REQUEST No.: 109755

TEST PROCEDURE: AS 3583.7 – Determination of Sulfide Sulfur content

Laboratory Sample No.: 296114
Date Sampled: 22/11/2023
Date Received: 18/12/2023
Date Tested: 20/12/2023
Sample Description: Enviroment ID #
GDDNM2305252
Field No.: 1

TEST RESULTS:

Sulfide Sulfur as S (%) 0.60

Sample submitted by the Client.

- Sample was provided by the Client.
- Test results in this test report relate only to the sample tested.
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Nanthini S
23rd January 2023.
Parisa Sowti, Violeta Paicu, Marc Smith, Stephanie Koehler, Mat.File, File.