## **FINAL REPORT**

CERTIFICATE No.: 24754



Boral Cement Limited N 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 Enviroment
PRODUCED AT:	Boral Cement Limited Geelong
TESTED AT:	Berrima Works Laboratory
SAMPLE IDENTIFICATION:	GDDNM2301249
DATE DESPATCHED:	4/04/2023

PROPERTY	<b>REQUIREMENTS OF AS 3582.2</b>	RESULT
Insoluble Residue (AS 3583.14)		0.3 %
LOI (AS 3583.3)		0.5 %
SO <sub>3</sub> (AS 2350.2; TM 10.01.07)		0.0 %
MgO (AS 2350.2)	≤ 15.0 %	5.3 %
Al <sub>2</sub> O <sub>3</sub> (AS 2350.2)	≤ 18.0 %	14.6 %
Fe <sub>2</sub> O <sub>3</sub> (AS 2350.2) expressed as FeO *		0.7 % 0.6 %
Mn <sub>2</sub> O <sub>3</sub> (AS 2350.2) expressed as MnO *		0.2 % 0.1 %
Total Alkali (AS 2350.2)		0.4 %
CI (AS 2350.2)	≤ 0.1 %	< 0.01 %
45µm Residue (AS 3583.1)		2.6 %
Fineness Index (AS 2350.8)		435 m <sup>2</sup> /kg

### REMARKS

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

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

v

Marc Smith Technical Services Manager

Accredited for compliance with ISO/IEC 17025 - Testing

NATA Accreditation Number: 530 / 531



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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

105276

FILE NO: 50/23

**REQUEST NO:** 

T +61 (02) 9624 9900

boral.com.au

TEST REPORT – MILLED SLAG

**CLIENT:** BORAL CEMENT – (TECHNICAL)

ADDRESS: 39 Delhi Road, North Ryde, NSW 2113

LAB SAMPLE NO: 282371

SOURCE OF SAMPLE: Boral Cement - Geelong

**DATE RECEIVED:** 17/04/2023

SAMPLE IDENTIFICATION: Enviroment ID # GDDNM2301249 - Date sampled: 04/04/2023

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	2.85	12/04/2023
Relative water requirement	AS 3583.6	103%	20/04/2023
Relative strength 7 days (accelerated)	AS 3583.6	93%	27/04/2023
Relative strength 28 days (standard)	AS 3583.6	89%	18/05/2023

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

## Note:

Sample supplied by the client and tested as received.

(Unan Julius Alvaro us Approved Signato CEM105276.JA.1 105 1202 20 Serial No. Date



NATA Accredited Laboratory Number: 547

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FILE No.:50/23

**REQUEST No.: 105276** 

## TEST REPORT

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

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

## **TEST PROCEDURE:**

AS 3583.12 - 1991 - Determination of Available Alkali

282371
04/04/2023
17/04/2023
18/05/2023
Enviroment ID # GDDNM2301249
1

Sodium as Na <sub>2</sub> O (%)	0.06
Potassium as K <sub>2</sub> O (%)	0.11
Available Alkali (%)	0.1

Available Alkali (%) = Na<sub>2</sub>O (%) + (0.658 x K<sub>2</sub>O %)

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## Note:

Sample was provided by the Client and tested as received.

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



Approved Signatory		Nanthini Selvadurai
Date 19-05-23	_Serial No	CHEM105276.NS.1

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# TEST REPORT

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

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

**REQUEST No.: 105276** 

FILE No.:50 / 23

TEST PROCEDURE: AS 3583.7 – Determination of Sulfide Sulfur content

Laboratory Sample No.:	282371
Date Sampled:	04/04/2023
Date Received:	17/04/2023
Date Tested:	02/05/2023
Sample Description:	Enviroment ID # GDDNM2301249
Field No.:	1

TEST RESULTS:

Sulfide Sulfur as S (%)

0.50

Sample submitted by the Client.

- Sample was provided by the Client.
- Test results in this test report relate only to the sample tested.
- This report shall not be reproduced except in full without the approval of the Boral MTS Laboratory.



Nanthini S 18<sup>th</sup> May 2023. Parisa Sowti, Violeta Paicu, Marc Smith, Stephanie Koehler, Mat.File, File.