

FINAL REPORT

CERTIFICATE No.: 25784



Boral Cement Limited

ABN 62 008 528 523

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TEST CERTIFICATE OF: Geelong Daily Despatch Enviroment
PRODUCED AT: Boral Cement Limited Geelong
TESTED AT: Berrima Works Laboratory
SAMPLE IDENTIFICATION: GDDNM2400762
DATE DESPATCHED: 2/20/2024

PROPERTY	REQUIREMENTS OF AS 3582.2	RESULT
Insoluble Residue (AS 3583.14)		0.1 %
LOI (AS 3583.3)		0.7 %
SO ₃ (AS 2350.2; TM 10.01.07)		2.9 %
MgO (AS 2350.2)	≤ 15.0 %	6.5 %
Al ₂ O ₃ (AS 2350.2)	≤ 18.0 %	14.0 %
Fe ₂ O ₃ (AS 2350.2)		0.9 %
expressed as FeO *		0.8 %
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)		99 %
Fineness Index (AS/NZ 2350.8)		480 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

NATA Accreditation Number: 530 / 531

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Jason Nairn
National Technical Manager

Date of Issue: 5/3/2024



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Materials Technical Services

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TEST REPORT – MILLED SLAG

CLIENT: BORAL CEMENT – (TECHNICAL)

FILE NO: 50/24

ADDRESS: 39 Delhi Road, North Ryde, NSW 2113

REQUEST NO: 111054

LAB SAMPLE NO: 299752

SOURCE OF SAMPLE: Boral Cement - Geelong

DATE RECEIVED: 05/03/2024

SAMPLE IDENTIFICATION: Enviroment ID # GDDNM2400762 - Date sampled: 20/02/2024

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	06/03/2024
Relative water requirement	AS 3583.6	104%	07/03/2024
Relative strength 7 days (accelerated)	AS 3583.6	92%	14/03/2024
Relative strength 28 days (standard)	AS 3583.6	91%	04/04/2024

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 06/04/2024 Serial no.

CEM111054.SE.1



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

NATA Accredited Laboratory
Number: 547



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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.: 111054

TEST PROCEDURE:

AS 3583.12 – 1991 – Determination of Available Alkali

Laboratory Sample No.: 299752
Date Sampled: 20/02/2024
Date Received: 05/03/2024
Date Tested: 09/04/2024
Sample Description: Enviroment ID #
GDDNM2400762
Field No.: 1

TEST RESULTS:

Sodium as Na₂O (%) 0.06
Potassium as K₂O (%) 0.07
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 10-04-24

Serial no. CHEM111054.NS.1





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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.: 111054

TEST PROCEDURE: AS 3583.7 – Determination of Sulfide Sulfur content

Laboratory Sample No.: 299752
Date Sampled: 20/02/2024
Date Received: 05/03/2024
Date Tested: 18/03/2024
Sample Description: Enviroment ID #
GDDNM2400762
Field No.: 1

TEST RESULTS:

Sulfide Sulfur as S (%) 0.36

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

10th April 2024

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