

FINAL REPORT

CERTIFICATE No.: 26498



Boral Cement Limited

ABN 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: GDDNM2404704
DATE DESPATCHED: 7/10/2024

| PROPERTY | REQUIREMENTS OF AS 3582.2 | RESULT |
|--|---------------------------|------------------------|
| Insoluble Residue (AS 3583.14) | | 0.4 % |
| LOI (AS 3583.3) | | -0.5 % |
| SO ₃ (AS 2350.2; TM 10.01.07) | | 2.0 % |
| MgO (AS 2350.2) | ≤ 15.0 % | 5.6 % |
| Al ₂ O ₃ (AS 2350.2) | ≤ 18.0 % | 14.5 % |
| Fe ₂ O ₃ (AS 2350.2) | | 0.8 % |
| expressed as FeO * | | 0.7 % |
| 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) | | 395 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: 7/11/2024



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Boral Construction Materials
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: 115105

LAB SAMPLE NO: 311283

SOURCE OF SAMPLE: Boral Cement - Geelong

DATE RECEIVED: 11/10/2024

SAMPLE IDENTIFICATION: Enviroment ID # GDDNM2404704 - Date sampled: 07/10/2024

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 | 2.88 | 23/10/2024 |
| Relative water requirement | AS 3583.6 | 100% | 24/10/2024 |
| Relative strength 7 days (accelerated) | AS 3583.6 | 103% | 31/10/2024 |
| Relative strength 28 days (standard) | AS 3583.6 | 103% | 21/11/2024 |

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

Note:

- Sample supplied by the client and tested as received.

Approved signatory

Sam El-Hamawi

CEM115105.SE.1

Date

25/11/2024

Serial no.



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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.: 115105

TEST PROCEDURE:

AS 3583.12 – 1991 – Determination of Available Alkali

Laboratory Sample No.: 311283
Date Sampled: 07/10/2024
Date Received: 11/10/2024
Date Tested: 23/11/2024
Sample Description: Enviroment ID #
GDDNM2404704
Field No.: 1

TEST RESULTS:

Sodium as Na₂O (m/m %) 0.05
Potassium as K₂O (m/m %) 0.09
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.

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

Approved signatory

Nanthini Selvadurai

Date 25-11-24

Serial no. CHEM115105.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.: 115105

TEST PROCEDURE: AS 3583.7 – Determination of Sulfide Sulfur content

Laboratory Sample No.: 311283
Date Sampled: 07/10/2024
Date Received: 11/10/2024
Date Tested: 23/11/2024
Sample Description: Enviroment ID #
GDDNM2404704
Field No.: 1

TEST RESULTS:

Sulfide Sulfur as S (%) 0.52

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
25th November 2024.

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