

# FINAL REPORT

CERTIFICATE No.: 22386



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**TEST CERTIFICATE OF:** Waurm Ponds High Early Strength Cement  
**PRODUCED AT:** Boral Cement Limited Waurm Ponds  
**TESTED AT:** Berrima Works Laboratory  
**SAMPLE IDENTIFICATION:** WWDHE2101022  
**DATE DESPATCHED:** 13/04/2021

| PROPERTY                          | REQUIREMENTS OF AS 3972 |          | RESULT   |
|-----------------------------------|-------------------------|----------|----------|
| Compressive Strength (AS 2350.11) |                         |          |          |
| 3 Day                             | Minimum                 | 25 MPa   | 39.2 MPa |
| 7 Day                             | Minimum                 | 40 MPa   | 53.1 MPa |
| 28 Day                            |                         |          | 68.1 MPa |
| Setting Time (AS 2350.4)          |                         |          |          |
| Initial                           | Minimum                 | 45 mins  | 105 mins |
| Final                             | Maximum                 | 360 mins | 165 mins |
| Soundness (AS 2350.5)             | Maximum                 | 5 mm     | 1 mm     |
| SO <sub>3</sub> (AS 2350.2)       | Maximum                 | 3.5 %    | 2.7 %    |
| Cl (AS 2350.2)                    | Maximum                 | 0.10 %   | 0.04 %   |

## OTHER REPORTABLE PROPERTIES

### CHEMICAL

K<sub>2</sub>O (AS 2350.2) 0.40 %  
Na<sub>2</sub>O (AS 2350.2) 0.24 %  
LOI (AS 2350.2) 1.3 %

### PHYSICAL

Normal Consistency (AS 2350.3) 29.8 %  
Fineness Index (AS 2350.8) 400 m<sup>2</sup>/kg

## REMARKS

Preparation of mortar and moulding of specimens in accordance with AS 2350.12.  
Sampling not carried out by laboratory. Samples tested as received.  
This cement is a Type HE (GP) cement with up to 7.5% mineral addition.



Accredited for compliance with ISO/IEC 17025 - Testing

Marc Smith  
Technical Services Manager