

# Certificate Of Analysis

Certificate Number: **0680-20** Issue Number: **1** Issue Date: **10/09/2020 9:33:43 AM**  
 Test Certificate for: **Flyash Blend 25**  
 Sample Tested at: **Sunstate Cement Ltd., Port of Brisbane, Australia**  
 Sample Identification: **Spot Despatch Sample F6P-001397 dated 20/07/2020**  
 Sample Produced at: **Sunstate Cement Ltd., Port of Brisbane, Australia**


| SPECIFIC PROPERTY                           | TEST METHOD          | AS3972 REQUIREMENTS | RESULT                      |
|---|----------------------|---------------------|-----------------------------|
| <b>Compressive strength</b>                 | AS2350.11, AS2350.12 |                     |                             |
| 3 Day                                       |                      |                     | <b>29.4 MPa</b>             |
| 7 Day                                       |                      | Minimum 35 MPa      | <b>39.5 MPa</b>             |
| 28 Day                                      |                      | Minimum 45 Mpa      | <b>54.4 MPa</b>             |
| <b>Setting Time</b>                         | AS2350.4             |                     |                             |
| Initial                                     |                      | Minimum 45 mins     | <b>120 mins</b>             |
| Final                                       |                      | Maximum 360 mins    | <b>225 mins</b>             |
| <b>Soundness</b>                            | AS2350.5             | Maximum 5 mm        | <b>1 mm</b>                 |
| <b>Sulphuric anhydride (SO<sub>3</sub>)</b> | In House             | Maximum 3.5 %       | <b>2.2 %</b>                |
| <b>Chloride</b>                             | AS3583.13            | Maximum 0.1 %       | <b>0.008 %</b>              |
| REPORTABLE PROPERTY                         | TEST METHOD          |                     | RESULT                      |
| <b>Loss on ignition</b>                     | AS2350.2             |                     | <b>2.4 %</b>                |
| <b>Fineness</b>                             | AS2350.8             |                     | <b>445 m<sup>2</sup>/kg</b> |
| OTHER PROPERTIES                            | TEST METHOD          |                     | RESULT                      |
| <b>Normal Consistency</b>                   | AS2350.3             |                     | <b>31.8 %</b>               |

**Sampling Procedure:**

Samples were prepared in accordance with AS2350.1


**Remarks:**

- 1 These results only relate to the specimens identified on this report
- 2 The sample as tested conforms to the requirements of AS3972 as Type GB cement
- 3 The blended cement is produced with as nominal 25% fly ash content



NATA accredited  
 Laboratory Number: 2191

Accredited for compliance with  
 ISO/IEC 17025 Testing



George Santagiuliana  
 Approved Signature  
 10/09/2020

***This certificate replaces previous certificate number 0680-20, issue 0 dated (REASON: Test Data Updated)***