

CERTIFICATE OF ANALYSIS

CERTIFICATE No. 0438-20
TEST CERTIFICATE FOR: HE Portland Cement
PRODUCED AT: Sunstate Cement Ltd, Port of Brisbane
SAMPLE IDENTIFICATION: Spot Despatch Sample sample E6P-001027 sampled on 11/5/2020
SAMPLE TESTED AT: Sunstate Cement Ltd, Port of Brisbane

| SPECIFIED PROPERTY | TEST METHOD | AS3972 REQUIREMENTS | | RESULT |
|--|----------------------|---------------------|----------|----------|
| Compressive strength | AS2350.11, AS2350.12 | | | |
| 1 day | | | | 22.6 MPa |
| 3 day | | Minimum | 25 MPa | 40.8 MPa |
| 7 day | | Minimum | 40 MPa | 54.3 MPa |
| 28 day | | | | 66.1 MPa |
| Setting time | AS2350.4 | | | |
| Initial | | Minimum | 45 mins | 105 mins |
| Final | | Maximum | 360 mins | 165 mins |
| Soundness | AS2350.5 | Maximum | 5 mm | 1 mm |
| Sulphuric anhydride (SO ₃) | In House | Maximum | 3.5 % | 2.9 % |

| REPORTABLE PROPERTY | TEST METHOD | | | RESULT |
|---------------------|-------------|--|--|------------------------|
| Loss on ignition | AS2350.2 | | | 2.9 % |
| Fineness | AS2350.8 | | | 400 m ² /kg |
| Chloride | AS3583.13 | | | 0.0107 % |

| OTHER PROPERTIES | TEST METHOD | | | RESULT |
|--------------------|-------------|--|--|--------|
| Normal Consistency | In House | | | 29.7 % |

SAMPLING PROCEDURE: Cement samples obtained according to the requirements of AS2350.1

REMARKS: The results of the above tests relate only to the sample as described above.



G Santaguiliana
Approved Signatory
16-Jun-2020

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NATA accredited laboratory
 Laboratory Number: 2190 / 2191
 Accredited for compliance with
 ISO/IEC 17025 Testing.

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