

CERTIFICATE OF ANALYSIS

CERTIFICATE No. 0456-19
TEST CERTIFICATE FOR: Slag Blend 60 (SR Cement)
PRODUCED AT: Sunstate Cement Ltd, Port of Brisbane
SAMPLE IDENTIFICATION: Spot Despatch Sample sample H6P-000573 sampled on 8/4/2019
SAMPLE TESTED AT: Sunstate Cement Ltd, Port of Brisbane

| SPECIFIED PROPERTY | TEST METHOD | AS3972 REQUIREMENTS | | RESULT |
|--|----------------------|---------------------|----------|----------|
| Compressive strength | AS2350.11, AS2350.12 | | | |
| 3 day | | | | 12.3 MPa |
| 7 day | | Minimum | 20 MPa | 23.7 MPa |
| 28 day | | Minimum | 35 MPa | 48.3 MPa |
| Setting time | AS2350.4 | | | |
| Initial | | Minimum | 45 mins | 150 mins |
| Final | | Maximum | 600 mins | 255 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 | | | 1.0 % |
| Fineness | AS2350.8 | | | 405 m ² /kg |
| Chloride | AS3583.13 | | | 0.0035 % |

| OTHER PROPERTIES | TEST METHOD | | | RESULT |
|--------------------|-------------|--|--|--------|
| Normal Consistency | In House | | | 32.8 % |

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.



S Knight
Approved Signatory
13-May-2019

