

CERTIFICATE OF ANALYSIS

**CERTIFICATE No.** 0222-19  
**TEST CERTIFICATE FOR:** HE Portland Cement  
**PRODUCED AT:** Sunstate Cement Ltd, Port of Brisbane  
**SAMPLE IDENTIFICATION:** Spot Despatch Sample sample E6P-000969 sampled on 18/2/2019  
**SAMPLE TESTED AT:** Sunstate Cement Ltd, Port of Brisbane

SPECIFIED PROPERTY	TEST METHOD	AS3972 REQUIREMENTS		RESULT
Compressive strength	AS2350.11, AS2350.12			
1 day				25.0 MPa
3 day		Minimum	25 MPa	43.6 MPa
7 day		Minimum	40 MPa	55.3 MPa
28 day				67.7 MPa
Setting time	AS2350.4			
Initial		Minimum	45 mins	105 mins
Final		Maximum	360 mins	180 mins
Soundness	AS2350.5	Maximum	5 mm	2 mm
Sulphuric anhydride (SO <sub>3</sub> )	In House	Maximum	3.5 %	2.6 %

REPORTABLE PROPERTY	TEST METHOD	RESULT
Loss on ignition	AS2350.2	3.0 %
Fineness	AS2350.8	385 m <sup>2</sup> /kg
Chloride	AS3583.13	0.0162 %

OTHER PROPERTIES	TEST METHOD	RESULT
Normal Consistency	In House	30.0 %

**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**  
**20-Mar-2019**



NATA accredited laboratory  
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