

CERTIFICATE OF ANALYSIS

**CERTIFICATE No.** 0988-19  
**TEST CERTIFICATE FOR:** Aalwhite  
**PRODUCED AT:** Sunstate Cement Ltd, Port of Brisbane  
**SAMPLE IDENTIFICATION:** Spot Despatch Sample sample B6P-000160 sampled on 22/7/2019  
**SAMPLE TESTED AT:** Sunstate Cement Ltd, Port of Brisbane


SPECIFIED PROPERTY	TEST METHOD	AS3972 REQUIREMENTS		RESULT
Compressive strength	AS2350.11, AS2350.12			
3 day				23.2 MPa
7 day		Minimum	20 MPa	38.9 MPa
28 day		Minimum	35 MPa	54.6 MPa
Setting time	AS2350.4			
Initial		Minimum	45 mins	120 mins
Final		Maximum	600 mins	210 mins
Soundness	AS2350.5	Maximum	5 mm	1 mm
Sulphuric anhydride (SO <sub>3</sub> )	In House	Maximum	3.5 %	1.8 %

REPORTABLE PROPERTY	TEST METHOD			RESULT
Loss on ignition	AS2350.2			1.0 %
Fineness	AS2350.8			460 m <sup>2</sup> /kg
Chloride	AS3583.13			0.0057 %

OTHER PROPERTIES	TEST METHOD			RESULT
Normal Consistency	In House			33.0 %

**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**  
**3-Sep-2019**



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

The results of the tests,  
 calibrations and/or measurements  
 included in this document are  
 traceable to Australian/national  
 standards. This document shall not  
 be reproduced except in full.