

CERTIFICATE OF QUALITY



PACIFIC CEMENT LIMITED
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General Purpose Blended Cement
AS 3972-2010 Type GB
American standard
ASTM Type 1 C-150a



Issued to : **Pacific Cement Limited**
 Date: **4th December 2014**

Test Report No: GB 42-14

| Sample ID | Despatch Period Represented by | | Initial | Final | Sound- | ISO-CEN Strength | | Loss on | Sulfur |
|----------------------------|--------------------------------|------------|------------|------------|------------|------------------|-------------|---------|-------------|
| | | | Set | Set | | ness | 7 days | 28 days | Ignition |
| | | | AS/NZS | AS/NZS | AS/NZS | AS/NZS | AS/NZS | AS/NZS | AS/NZS |
| | From | To | 2350.4 | 2350.4 | 2350.5 | 2350.11 | 2350.11 | 2350.2 | 2350.2 |
| | | minutes | minutes | mm | MPa | MPa | % | % | |
| Mean | | | 71 | 151 | 1 | 32 | 50 | 2 | 3 |
| St. Dev | | | 9 | 15 | 1 | 3 | 3 | 0 | 0 |
| Min | | | 60 | 125 | 0 | 29 | 45 | 1 | 3 |
| Max | | | 85 | 175 | 2 | 38 | 56 | 2 | 3 |
| Requirements of: | | | 45 | 600 | 5.0 | 20.0 | 35.0 | | 3.5% |
| AS 3972 - Amdt:2010 | | | min | max | max | min | min | | max |
| 875DB1W270714 | 21/07/2014 | 27/07/2014 | 75 | 140 | 1.0 | 33.9 | 52.8 | 1.72 | 2.8 |
| 934DB1W030814 | 28/07/2014 | 3/08/2014 | 65 | 140 | 2.0 | 33.2 | 51.3 | 1.96 | 2.7 |
| 973DB1W100814 | 4/08/2014 | 10/08/2014 | 70 | 160 | 1.0 | 29.7 | 50.5 | 1.80 | 2.6 |
| 006DB1W170814 | 11/08/2014 | 17/08/2014 | * | * | * | 32.2 | 50.3 | 1.93 | 2.9 |
| 040DB1W240814 | 18/08/2014 | 24/08/2014 | 65 | 160 | 2.0 | 31.0 | 50.2 | 1.69 | 2.7 |
| 084DB1W310814 | 25/08/2014 | 31/08/2014 | 70 | 145 | 0.0 | 37.6 | 54.5 | 1.61 | 2.7 |
| 222DB1W210914 | 15/09/2014 | 21/09/2014 | 65 | 145 | 2.0 | 30.2 | 48.2 | 1.85 | 2.6 |
| 287DB1W280914 | 22/09/2014 | 28/09/2014 | 65 | 145 | 2.0 | 28.5 | 46.0 | 2.18 | 2.7 |
| 330DB1W051014 | 29/09/2014 | 5/10/2014 | 60 | 125 | 2.0 | 32.0 | 51.1 | 2.10 | 2.7 |
| 417DB1W121014 | 6/10/2014 | 12/10/2014 | 60 | 125 | 2.0 | 29.7 | 47.9 | 1.69 | 2.8 |
| 460DB1W191014 | 13/10/2014 | 19/10/2014 | 65 | 170 | 1.0 | 30.0 | 52.6 | 1.98 | 2.8 |
| 537DB1W261014 | 20/10/2014 | 26/10/2014 | 70 | 140 | 2.0 | 30.7 | 44.9 | 1.91 | 2.7 |
| 619DB1W021114 | 27/10/2014 | 2/11/2014 | 80 | 170 | 1.0 | 35.7 | 56.1 | 1.47 | 2.6 |
| 693DB1W091114 | 3/11/2014 | 9/11/2014 | 85 | 160 | 0.0 | 32.5 | # | 1.72 | 2.6 |
| 729DB1W161114 | 10/11/2014 | 16/11/2014 | 85 | 165 | 0.0 | 36.8 | # | 1.43 | 2.6 |
| 812DB1W231114 | 17/11/2014 | 23/11/2014 | 85 | 150 | 0.0 | 35.9 | # | 1.31 | 2.6 |
| 894DB1W301114 | 24/11/2014 | 30/11/2014 | 75 | 175 | 1.0 | # | # | 2.40 | 2.7 |

The above samples were tested as received in accordance with current terms of accreditation.

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Authorised by :


Peceli T Vukicikorolevu
IANZ Approved Signatory

Sample Result Outside of the Standard Test Requirement

- # No result available at time of certificate issue
- * Not enough sample available