



# CERTIFICATE OF QUALITY

## EcoSure® Type GP Cement



NZS3122:2009 (Bulk & Bag Dispatch)

Issued to: National Sales Manager

Test Report No:

25#135

info@goldenbay.co.nz

| Code                       | Week Ending / Voyage | Specific Surface Area | Normal Consistency | Initial Set | Final Set | Soundness | Compressive Strength |          |          |          |        |        |         | Free Lime | Sodium Equivalent (NaEq) | Sulphur Trioxide (SO <sub>3</sub> ) |
|----------------------------|----------------------|-----------------------|--------------------|-------------|-----------|-----------|----------------------|----------|----------|----------|--------|--------|---------|-----------|--------------------------|-------------------------------------|
|                            |                      |                       |                    |             |           |           | ISOCEN               |          |          | Concrete |        |        |         |           |                          |                                     |
|                            |                      |                       |                    |             |           |           | 3 days               | 7 days   | 28 days  | Slump    | 3 days | 7 days | 28 days |           |                          |                                     |
| Mean                       |                      | 385                   | 29.1               | 160         | 3:58      | 1         | 35.3                 | 48.0     | 63.7     | 90       | 29.2   | 39.4   | 50.2    | 1.5       | 0.54                     | 2.31                                |
| Standard Deviation         |                      | 10                    | 0.5                | 10          | 0:10      | 0.4       | 0.9                  | 1.1      | 1.3      | 8        | 2.6    | 3.9    | 4.1     | 0.2       | 0.02                     | 0.04                                |
| Min                        |                      | 370                   | 27.8               | 150         | 3:45      | 0         | 33.7                 | 45.9     | 61.5     | 80       | 25.0   | 32.5   | 44.5    | 1.3       | 0.51                     | 2.25                                |
| Max                        |                      | 405                   | 29.8               | 180         | 4:30      | 2         | 37.1                 | 49.6     | 65.6     | 110      | 35.0   | 47.0   | 57.0    | 2.1       | 0.58                     | 2.39                                |
| NZS 3122:2009 Requirements |                      |                       |                    | 45 min      | 6:00 max  | 5 max     |                      | 35.0 min | 45.0 min |          |        |        |         |           | 0.6 max                  | 3.5 max                             |
| Units                      |                      | m <sup>2</sup> /kg    | %                  | minutes     | hrs:mins  | mm        | MPa                  | MPa      | MPa      | mm       | MPa    | MPa    | MPa     | %         | %                        | %                                   |
| 250829-421                 | 29/08/25             | 385                   | 29.1               | 150         | 4:00      | 1         | 36.0                 |          |          |          |        |        |         | 1.4       | 0.56                     | 2.32                                |
| 250825-419                 | 25/08/25             | 395                   | 29.1               | 150         | 4:00      | 1         | 34.6                 |          |          | 90       | 27.0   |        |         | 1.5       | 0.55                     | 2.32                                |
| 250816-019                 | 16/08/25             | 385                   | 29.1               | 165         | 4:00      | 2         | 35.4                 | 47.4     |          | 90       | 28.0   | 38.5   |         | 1.5       | 0.55                     | 2.38                                |
| 250812-711                 | 12/08/25             | 370                   | 29.1               | 150         | 3:45      | 1         | 37.1                 | 49.3     |          | 90       | 29.5   | 41.5   |         | 1.3       | 0.55                     | 2.33                                |
| 250810-880                 | 10/08/25             | 370                   | 29.1               | 150         | 3:45      | 1         | 36.4                 | 49.6     |          |          |        |        |         | 1.6       | 0.56                     | 2.32                                |
| 250803-472                 | 03/08/25             | 375                   | 29.1               | 150         | 4:30      | 1         | 34.7                 | 47.8     |          | 90       | 27.0   | 37.0   |         | 1.4       | 0.55                     | 2.28                                |
| 250731-291                 | 31/07/25             | 370                   | 29.1               | 150         | 3:45      | 1         | 35.4                 | 48.8     | 65.6     | 100      | 28.0   | 37.5   | 44.5    | 1.5       | 0.54                     | 2.26                                |
| 250724-893                 | 24/07/25             | 400                   | 29.1               | 150         | 4:00      | 0         | 34.7                 | 47.6     | 63.6     | 90       | 30.0   | 37.0   | 49.0    | 1.5       | 0.53                     | 2.33                                |
| 250719-722                 | 19/07/25             | 395                   | 29.1               | 165         | 4:00      | 0         | 34.4                 | 46.7     | 62.0     | 100      | 30.5   | 43.0   | 52.0    | 1.4       | 0.52                     | 2.30                                |
| 250706-286                 | 06/07/25             | 390                   | 29.1               | 165         | 4:00      | 0         | 35.4                 | 46.6     | 62.5     | 90       | 27.0   | 35.0   | 48.0    | 1.6       | 0.52                     | 2.34                                |
| 250702-068                 | 02/07/25             | 385                   | 28.8               | 165         | 4:00      | 1         | 35.2                 | 48.8     | 63.4     | 80       | 28.5   | 39.0   | 48.0    | 1.5       | 0.51                     | 2.31                                |
| 250628-016                 | 28/06/25             | 375                   | 28.7               | 165         | 3:45      | 1         | 35.1                 | 47.4     | 61.7     |          |        |        |         | 1.4       | 0.54                     | 2.33                                |
| 250624-707                 | 24/06/25             | 390                   | 28.8               | 150         | 4:15      | 1         | 35.9                 | 48.3     | 63.5     | 100      | 26.0   | 33.5   | 45.0    | 1.5       | 0.54                     | 2.39                                |
| 250621-499                 | 21/06/25             | 375                   | 27.8               | 150         | 3:45      | 1         | 34.0                 | 47.7     | 63.0     | 100      | 27.5   | 39.0   | 49.5    | 1.3       | 0.54                     | 2.29                                |
| 250608-041                 | 08/06/25             | 390                   | 29.0               | 165         | 3:45      | 1         | 34.8                 | 46.9     | 62.2     | 80       | 30.5   | 41.0   | 52.0    | 1.5       | 0.55                     | 2.35                                |
| 250601-735                 | 01/06/25             | 395                   | 28.5               | 150         | 4:00      | 1         | 35.5                 | 49.2     | 63.9     | 80       | 35.0   | 47.0   | 54.5    | 1.4       | 0.54                     | 2.32                                |
| 250528-481                 | 28/05/25             | 380                   | 28.5               | 165         | 4:00      | 1         | 34.2                 | 47.7     | 64.7     | 90       | 27.5   | 37.0   | 45.0    | 1.5       | 0.54                     | 2.33                                |
| 250520-086                 | 20/05/25             | 390                   | 28.5               | 180         | 4:00      | 0         | 35.3                 | 48.8     | 63.6     | 90       | 28.5   | 37.0   | 50.5    | 1.6       | 0.55                     | 2.25                                |
| 250512-934                 | 12/05/25             | 405                   | 29.7               | 180         | 4:15      | 1         | 34.6                 | 45.9     | 65.3     | 80       | 33.0   | 42.0   | 55.0    | 1.5       | 0.53                     | 2.32                                |
| 250510-936                 | 10/05/25             | 390                   | 29.8               | 180         | 4:00      | 1         | 36.3                 | 49.3     | 64.3     |          |        |        |         | 1.5       | 0.55                     | 2.28                                |
| 250504-805                 | 04/05/25             | 400                   | 29.7               | 165         | 4:00      | 2         | 34.7                 | 47.5     | 64.4     | 110      | 25.0   | 32.5   | 44.5    | 2.1       | 0.54                     | 2.36                                |
| 250427-406                 | 27/04/25             | 380                   | 29.8               | 165         | 3:45      | 1         | 33.7                 | 46.4     | 61.5     | 90       | 28.5   | 39.0   | 56.0    | 1.9       | 0.56                     | 2.25                                |
| 250423-116                 | 23/04/25             | 390                   | 29.8               | 165         | 4:00      | 1         | 36.4                 | 49.1     | 64.3     | 80       | 34.0   | 45.0   | 57.0    | 1.4       | 0.56                     | 2.32                                |
| 250419-958                 | 19/04/25             | 380                   | 29.7               | 150         | 4:00      | 1         | 36.8                 | 49.2     | 65.0     | 90       | 32.5   | 45.5   | 53.5    | 1.6       | 0.58                     | 2.30                                |
| 250407-515                 | 07/04/25             | 370                   | 29.7               | 165         | 4:00      | 1         | 35.7                 | 47.4     | 65.2     | 80       | 30.5   | 41.5   | 49.0    | 1.6       | 0.56                     | 2.29                                |

The above samples were tested as received in accordance with the current terms of accreditation and methods stated in NZS 3122:2009 with the exception of:  
Chemical composition to ASTM C114-23

All concrete testing conducted in accordance with NZS 3112:1986.

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*Vincent Lane*

Vincent Lane  
Works Chemist



Portland Works, Portland, Whangarei 0178

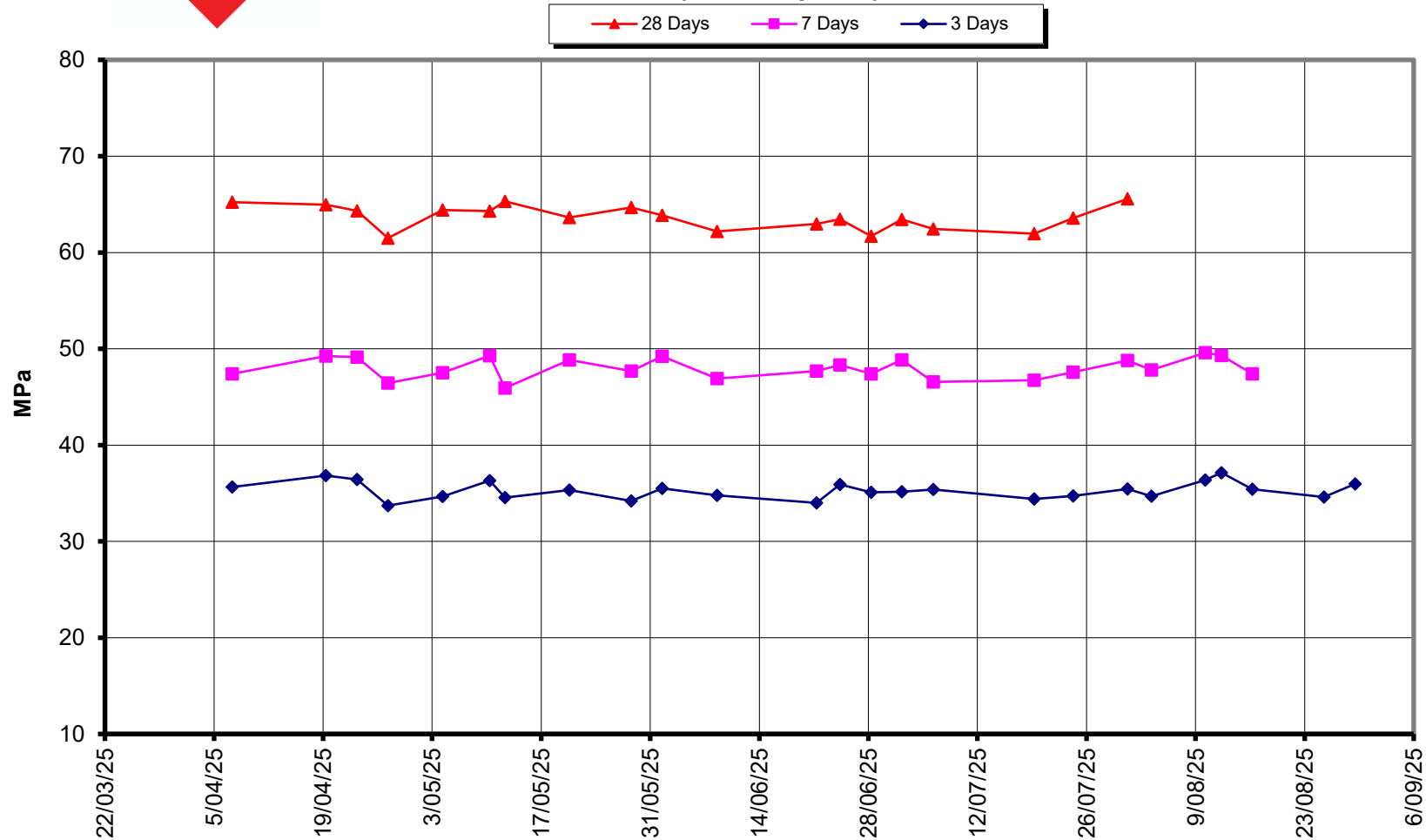
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Page 1 of 3



## EcoSure® Type GP Cement

### Compressive Strength ISO-CEN Mortar (Bulk Dispatch)





## EcoSure® Type GP Cement

### Compressive Strength Concrete (Bulk Dispatch)

