



CERTIFICATE OF QUALITY

EcoSure® Type GP Cement

NZS3122:2009 (Bulk & Bag Dispatch)



Issued to: National Sales Manager

Test Report No: 24#123

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 ₃)
							ISOCEN			Concrete						
							3 days	7 days	28 days	Slump	3 days	7 days	28 days			
Mean		363	29.5	166	4:02	1	34.0	46.4	64.5	97	26.0	36.0	47.1	1.5	0.53	2.32
Standard Deviation		7	0.1	9	0:10	0.4	1.4	1.7	1.5	6	1.9	2.1	2.1	0.2	0.01	0.06
Min		350	28.9	150	3:45	0	30.3	42.8	63.0	90	22.5	32.0	44.0	1.1	0.51	2.15
Max		370	29.6	180	4:15	2	36.5	49.1	70.0	105	29.0	39.5	52.5	2.0	0.56	2.41
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 ² /kg	%	minutes	hrs:mins	mm	MPa	MPa	MPa	mm	MPa	MPa	MPa	%	%	%
240919-459-GP	19/09/24	370	29.5	180	4:00	1	34.7			105	24.0			1.5	0.56	2.27
240913-116-GP	13/09/24	365	29.6	165	3:45	0	36.5	49.1						1.8	0.55	2.27
240909-992-GP	09/09/24	365	29.5	165	4:00	1	35.8	47.4		100	24.5	33.0		1.3	0.54	2.37
240901-689-GP	01/09/24	365	29.5	180	4:00	1	36.1	48.4		90	27.5	39.5		1.2	0.55	2.41
240828-359-GP	28/08/24	360	29.5	180	4:15	2	35.4	47.9		100	23.5	32.0		1.2	0.55	2.30
240825-201-GP	25/08/24	350	29.5	165	4:00	1	33.4	44.6	63.1	100	26.0	36.5	46.0	1.3	0.54	2.24
240814-777-GP	14/08/24	350	29.5	180	4:00	2	33.1	46.6	64.3	100	25.5	36.5	46.5	1.3	0.55	2.25
240806-438-GP	06/08/24	365	29.6	180	4:15	1	32.6	46.9	65.2	90	27.0	37.5	48.0	1.5	0.54	2.31
240801-139-GP	01/08/24	370	29.4	165	4:00	1	33.7	47.0	64.8					1.8	0.53	2.31
240729-137-GP	29/07/24	370	29.6	165	3:45	1	32.9	44.4	63.2	90	28.5	36.5	47.0	1.7	0.54	2.31
240724-875-GP	24/07/24	355	29.5	165	4:00	1	32.8	43.9	63.6	90	26.5	36.5	46.5	1.9	0.54	2.27
240718-573-GP	18/07/24	350	29.5	165	4:15	1	32.7	45.1	64.6					1.5	0.53	2.35
240716-571-GP	16/07/24	355	29.5	165	4:15	1	33.5	46.3	64.5	90	26.5	36.5	46.5	1.6	0.53	2.39
240712-250-GP	12/07/24	360	29.6	165	4:00	2	35.2	47.1	66.1	105	26.0	35.0	46.0	1.3	0.54	2.37
240708-248-GP	08/07/24	365	28.9	165	4:00	1	34.1	46.4	64.9					1.6	0.52	2.37
240703-939-GP	03/07/24	360	29.6	165	4:00	1	35.2	48.9	70.0					1.5	0.51	2.32
240630-937-GP	30/06/24	365	29.5	165	4:00	1	33.9	44.8	64.7	100	26.5	35.5	48.5	1.4	0.52	2.28
240626-520-GP	26/06/24	365	29.5	150	4:00	2	30.3	42.8	63.9	100	25.0	35.5	47.0	2.0	0.52	2.15
240621-275-GP	21/06/24	355	29.5	165	3:45	2	34.4	45.4	63.3	100	29.0	39.5	52.5	1.1	0.51	2.36
240613-081-GP	13/06/24	360	29.5	165	4:15	2	35.0	46.8	64.6					1.6	0.51	2.31
240610-799-GP	10/06/24	365	29.6	165	4:15	0	33.4	45.8	63.0	90	28.5	37.5	48.5	1.5	0.53	2.28
240605-537-GP	05/06/24	370	29.6	150	3:45	1	34.9	45.2	63.7	105	22.5	33.0	44.0	1.6	0.54	2.33
240531-218-GP	31/05/24	370	29.6	165	4:00	1	33.8	45.7	63.5	100	23.5	34.5	44.0	1.8	0.52	2.34
240523-036-GP	23/05/24	370	29.6	150	4:15	1	32.7	47.7	63.7	90	28.0	37.0	48.5	1.5	0.53	2.33
240514-875-GP	14/05/24	370	29.5	150	4:15	1	34.7	48.8	65.5					1.7	0.54	2.39

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 C114-18

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

This Report must not be reproduced except in full

Marley Korach-Salt
Chemical Technician



Portland Works, Portland, Whangarei 0178

Date issued: 27/09/2024

Page 1 of 3

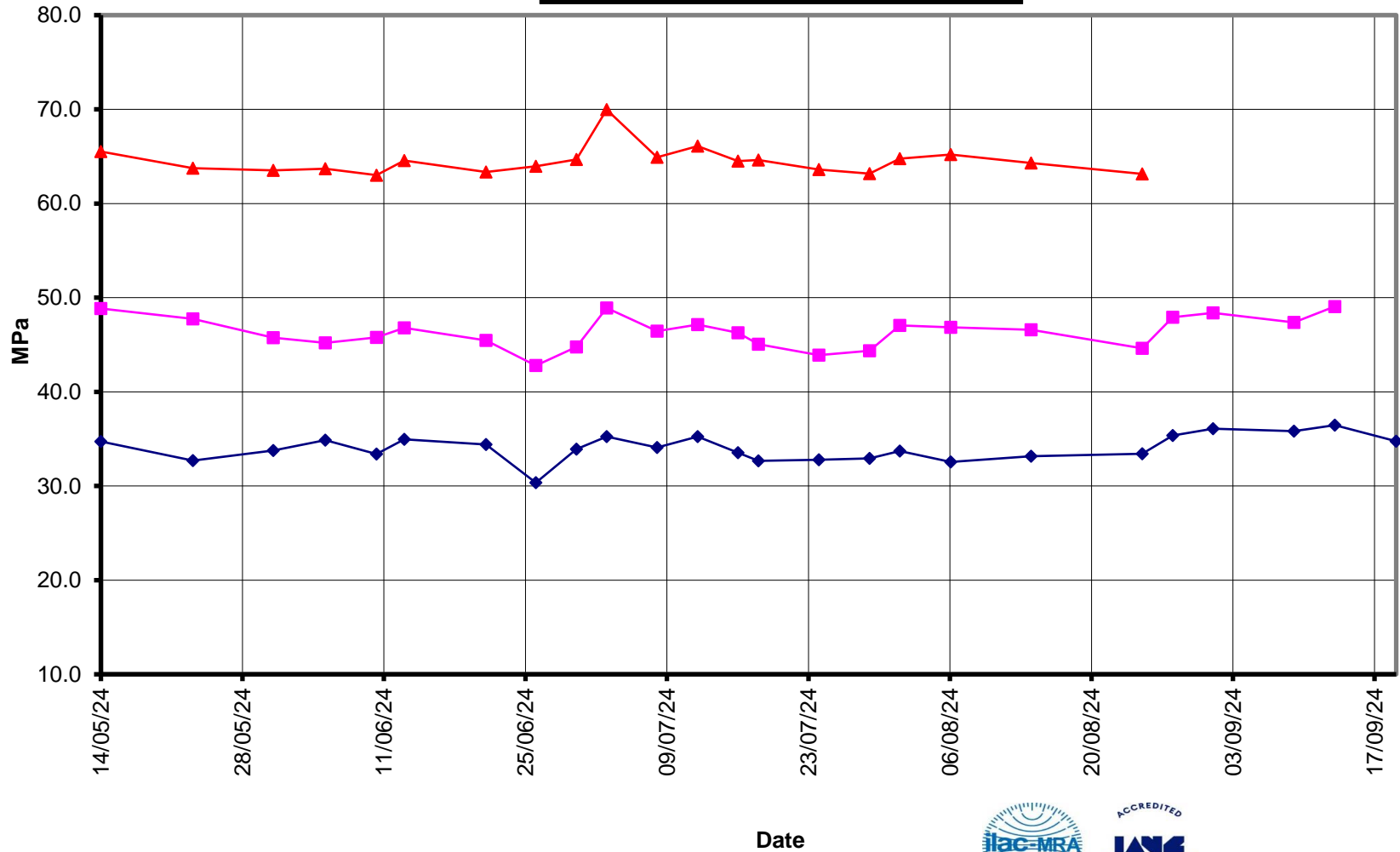


EcoSure® Type GP Cement

Compressive Strength ISO-CEN Mortar (Bulk Dispatch)



28 Days 7 Days 3 Days





EcoSure® Type GP Cement

Compressive Strength Concrete (Bulk Dispatch)



—x— 28 Days —■— 7 Days —◆— 3 Days —x— Slump

