



CERTIFICATE OF QUALITY

EcoFast® Type HE Cement

NZS 3122:2009



Issued to: National Sales Manager

Test Report No: 25#103

info@goldenbay.co.nz

Code	Week Ending	Specific Surface Area	Normal Consistency	Initial Set	Final Set	Soundness	Compressive Strength								Free Lime	Sodium Equivalent (NaEq)	Sulphur Trioxide (SO ₃)	
							ISO-CEN				Concrete							
							1 day	3 days	7 days	28 days	Slump	1 day	3 days	7 days				28 days
Mean		520	33.1	136	3:19	1	23.4	41.3	52.1	66.1	86.8	15.2	36.6	44.9	54.3	1.5	0.55	2.37
Standard Deviation		13	0.7	13	0:15	0.5	1.3	2.2	2.5	1.6	8.5	1.9	4.2	3.8	3.7	0.2	0.02	0.07
Min		500	31.6	105	3:00	0	19.8	36.1	48.0	64.0	70.0	11.0	29.5	38.0	48.0	1.1	0.52	2.15
Max		550	34.6	165	3:45	2	25.5	44.3	56.8	70.3	100.0	18.5	46.5	56.0	62.5	1.9	0.59	2.48
NZS 3122:2009 Requirements				45 min	6:00 max	5 max		25.0 min	40.0 min								0.6 max	3.5 max
Units		m ² /kg	%	minutes	hrs:mins	mm	Mpa	MPa	MPa	MPa	mm	Mpa	MPa	MPa	MPa	%	%	%
250706-288-HE	06/07/25	510	33.4	135	3:15	0	24.9	40.6	53.7		90	17.5	40.5			1.8	0.53	2.39
250704-070-HE	04/07/25	515	34.6	150	3:30	0	22.0	41.7	55.1		90	16.5	38.0	46.5		1.8	0.52	2.32
250621-507-HE	21/06/25	540	34.4	120	3:00	1	23.5	41.0	53.1	65.6	80	18.5	43.5	48.5		1.9	0.57	2.45
250528-476-HE	28/05/25	540	33.2	120	3:00	1	24.0	42.1	55.7	68.4	90	14.5	36.5	49.0	58.0	1.7	0.56	2.39
250512-938-HE	12/05/25	530	33.2	135	3:15	0	23.5	43.5	56.8	67.6	80	17.0	41.0	49.0	58.0	1.3	0.57	2.38
250418-786-HE	18/04/25	510	32.4	135	3:00	1	22.7	43.3	55.0	68.2	80	17.5	46.5	56.0	62.5	1.4	0.58	2.36
250327-064-HE	27/03/25	520	31.7	135	3:30	2	22.9	40.5	52.7	65.8	80	14.0	38.5	49.0	57.5	1.2	0.58	2.31
250214-916-HE	14/02/25	500	33.3	150	3:30	1	22.2	42.7	53.4	66.8	80	15.5	40.0	47.0	57.0	1.4	0.55	2.38
241220-145-HE	20/12/24	525	32.5	165	3:45	1	25.5	43.6	54.6	68.0	80	11.0	32.0	42.0	54.0	1.2	0.54	2.36
241118-955-HE	18/11/24	515	32.6	135	3:15	1	19.8	36.1	48.1	64.4	80	13.5	34.5	43.5	54.0	1.2	0.54	2.15
241016-523-HE	16/10/24	525	32.7	150	3:15	2	21.8	38.3	49.3	64.7	80	13.5	33.5	44.0	52.5	1.6	0.57	2.33
240925-558-HE	25/09/24	500	32.9	105	3:30	0	25.3	38.8	52.7	66.2	80	14.5	32.5	41.5	51.0	1.3	0.57	2.42
240909-114-HE	09/09/24	535	32.7	135	3:15	1	22.8	38.9	49.4	64.7	90	11.5	32.5	42.5	55.0	1.7	0.55	2.36
240825-361-HE	25/08/24	525	32.9	135	3:15	0	23.6	40.7	50.5	65.2	90	15.5	35.0	42.0	52.5	1.5	0.55	2.41
240814-686-HE	14/08/24	510	32.8	150	3:30	1	23.4	41.1	49.0	64.9	100	12.5	33.0	42.0	49.5	1.6	0.53	2.29
240729-144-HE	29/07/24	505	33.1	150	3:45	1	24.7	42.2	50.3	65.7	80	15.5	39.0	44.5	56.0	1.6	0.59	2.48
240716-575-HE	16/07/24	530	31.6	150	3:45	1	22.8	40.0	50.1	65.2	90	15.5	35.0	42.5	49.0	1.6	0.53	2.30
240621-277-HE	21/06/24	515	33.3	135	3:00	1	23.2	37.2	48.0	64.0	100	14.0	30.0	38.0	50.5	1.3	0.53	2.38
240605-539-HE	05/06/24	510	33.4	120	3:00	1	24.3	41.7	50.0	64.8	80	18.5	38.5	46.0	53.0	1.6	0.54	2.39
240523-038-HE	23/05/24	505	33.2	135	3:45	1	23.5	42.2	54.8	64.7	100	15.0	35.5	43.0	53.0	1.4	0.53	2.42
240429-362-HE	29/04/24	550	33.3	135	3:00	1	23.2	43.0	51.1	64.2	90	15.0	37.5	46.5	56.0	1.5	0.56	2.43
240421-987-HE	21/04/24	520	33.7	120	3:15	2	22.7	43.7	50.3	67.2	100	16.0	35.5	44.5	53.5	1.5	0.57	2.42
240409-388-HE	09/04/24	530	33.8	135	3:15	1	24.9	43.2	51.8	66.7	100	15.0	29.5	40.5	48.0	1.4	0.56	2.39
240318-418-HE	18/03/24	520	34.0	135	3:30	1	24.1	43.1	52.6	66.4	70	17.0	42.5	47.0	61.0	1.8	0.57	2.44
240310-055-HE	10/03/24	505	33.1	120	3:15	1	24.2	44.3	53.7	70.3	90	15.0	35.0	43.5	54.0	1.1	0.58	2.37

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 Analysis to ASTM C114-23

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

This Report must not be reproduced except in full

Vincent Lane
Works Chemist



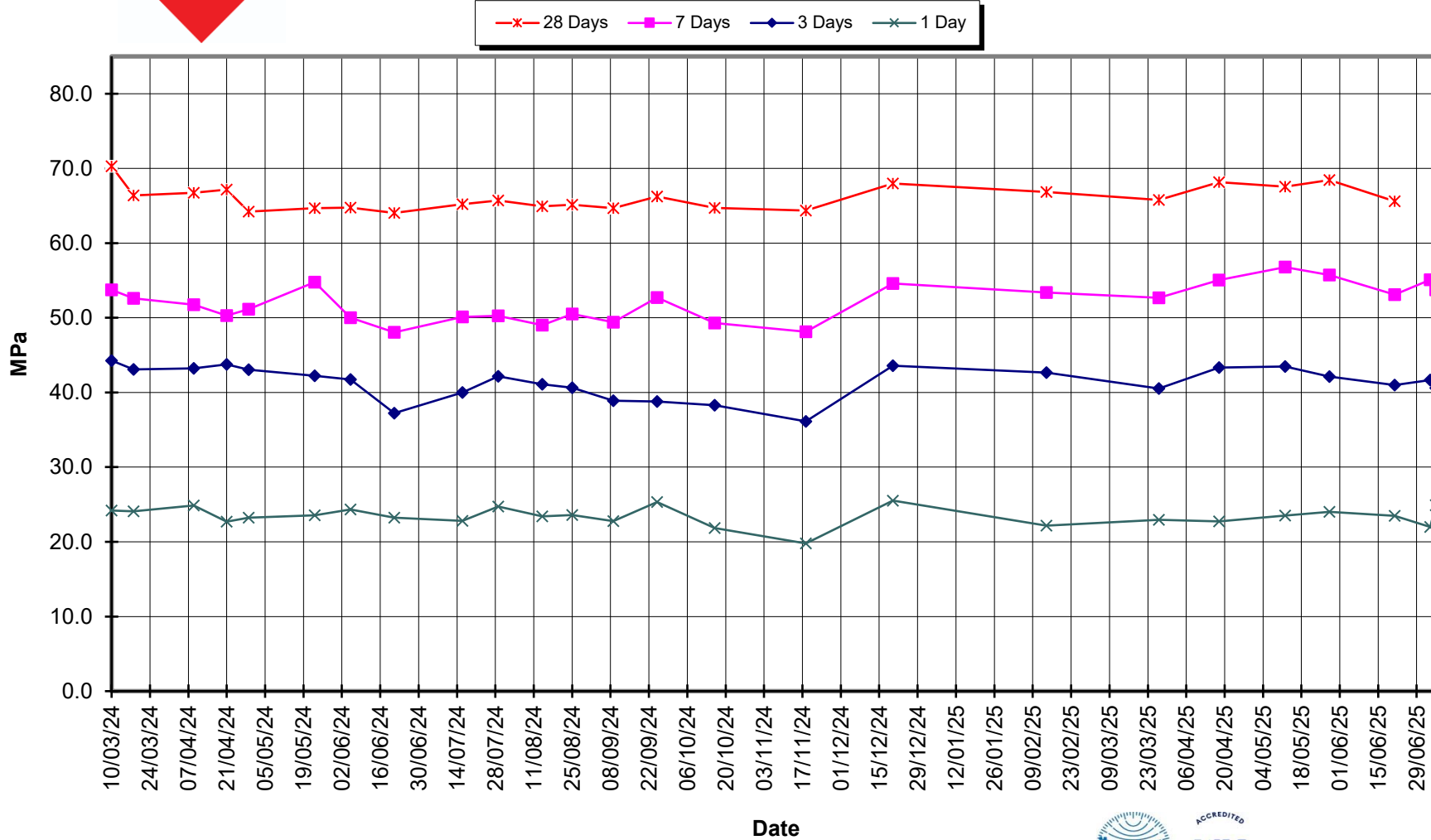
Portland Works, Portland, Whangarei 0178

Date issued: 21/07/25

Page 1 of 3



EcoFast®
Type HE Cement
Compressive Strength ISO-CEN Mortar





EcoFast® Type HE Cement

Compressive Strength Concrete



—x— 28 Days —■— 7 Days —◆— 3 Days —x— 1 Day —*— Slump

