



Plant+Soil+Turf

CLEVERbyNATURE

PERMA GRO® MARINE

A RANGE OF SLOW RELEASE FERTILISERS THAT **IMPROVE PLANT & SOIL PERFORMANCE**



PERMAGRO[®]MARINE[™] is a premium zeolite based range of slow release fertilisers that are packed with nutrients to ensure the success of any planting or soil improvement program.

Zeolite improves the CEC of the soil, slow releases nutrients to the plant roots and features enhanced moisture management by retaining moisture and improving soil aeration and drainage.

TYPICAL ANALYSIS %w/v		Ν	Р	К	S		
PERMAGRO® MARINE ORGANIC™	Fine		Fish & Seaweed Extracts				
PERMAGRO® MARINE ORGANIC."	Coarse		FISH & Seaweed Extracts				
PERMAGRO® MARINE VINE™	Fine	0.2			0.5		
PERMAGRO® MARINE VINE	Coarse	0.3			0.6		
PERMAGRO® MARINE NPKS™	Fine		0.8	1.6	0.2		
PERMAGRO® MARINE NFRS	Coarse				0.3		
	MARINE VINE [™] & NPKS [™] contains Fulvic, Fish & Seaweed						

Primary sectors:

- Agriculture
- Viticulture
- Horticulture
- Lawn & Turf

FEATURES:

- Permanent solution for improving soils
- Slow release nutrients
- Improves moisture retention
- Reduces nitrate leaching
- Three nutrient solutions
- Fine and Coarse options



PERMAGRO[®]MARINE[™] are permanent solutions and do not break down in the soil.

Once the bound nutrients are released, **PERMA**GRO®MARINE[™] continues to bind and release positive cations, improve the physical properties of soil and manage moisture retention.

PERMAGRO®MARINE™ offers three solutions for your application:

PERMAGRO[®]MARINE ORGANIC[™] a high quality organic fertiliser that is designed to provide essential nutrients to crops and plants using a combination of fish and seaweed compounds.

PERMAGRO[®] MARINE VINE[™] is a high-quality fertiliser for viticulturalists and horticulturalists to manage nutrient delivery at a time when nitrogen impact on leaf growth and fruit quality is less than desirable.

PERMAGRO[®] MARINE NPKS[™] a premium high quality fertiliser that combines the best of both worlds - synthetic and organic compounds.

Easy Application:

PERMAGRO® MARINE[™] can be applied by hand or tow behind spreader. The product runs freely and doesn't bridge out. Easy to use for small and medium land holders. Accurately calibrate and distribute.

PERMAGRO[®] MARINE[™] can be applied in wet weather or when foliar fertiliser application is not possible.

Fine - Not suitable for a hand spreader due to dusting effect of fine particle. Use a tow behind for dusting the target area or as a mix to substrates. Fine option migrates into the soil profile once watered in.

Coarse - Suitable for hand and tow behind spreaders. The small chip size migrates into the soil profile under the leaf once watered in.

The benefits are economically clear:

PERMAGRO[®] MARINE[™] offers a number of benefits for plant growth and soil quality. Here are some of the key benefits:

- Improved Water Retention: PERMAGRO® MARINE[™] improves water retention in the soil, reducing water loss and increasing plant hydration.
- Enhanced CEC and Nutrient Availability: The loaded zeolite improves the CEC of the soil and provides essential nutrients to plants, promoting healthy growth and development while limiting nitrate leaching.
- Increased Soil Porosity: The zeolite particles in PERMAGRO® MARINE[™] create tiny pores in the soil, promoting aeration and improving soil structure.
- Improved Soil Fertility: The addition of organic matter and nutrients to the soil enhances soil fertility, promoting healthy plant growth.

SCAN ME



USAGE

TYPICAL CROPS	GRADE	RATE	APPLICATION NOTES		
A	Fine	80-130kg/Ha	Apply 1 - 2 times during spring		
Agriculture	Coarse	70-90kg/Ha	and autumn		
Horticulture	Fine	100-150kg/Ha	Apply 1 - 2 times early in the growing		
	Coarse	75-110kg/Ha	season prior to fruit set and 30 days prior to harvesting		
Commercial Turf	Fine	100-150kg/Ha	Apply 1 - 2 times during spring		
	Coarse	75-110kg/Ha	and autumn		
Residential Lawns	Fine	Not Recommended	Apply 1 - 2 times during spring		
	Coarse	100g/m2	and autumn		

ELEMENTAL PROPERTIES

Typical analysis per kg

ELEMENT	SYMBOL		AGRO® IE VINE™	PERMA GRO® MARINE NPKS™		UNITS	PERMA GRO® MARINE ORGANIC™
		Fine	Coarse	Fine	Coarse		
Nitrogen	N	0.22	0.31	2.17	3.04	% w/v	
Phosphorus	Р	1.04	1.45	0.83	1.17	% w/v	
Potassium	К	2.19	3.07	1.57	2.19	% w/v	
Sulphur	S	0.47	0.66	0.22	0.31	% w/v	PERMAGRO® MARINE ORGANIC" contains fish emulsion a rich source of nitrogen, phosphorus, and potassium as well as other trace elements, amino acids and vitamins.
Boron	В	143	200	98	137	ppm	
Calcium	Ca	1109	1553	122	171	ppm	
Cobalt	Со	11	16	7	9	ppm	
Copper	Cu	20	28	35	48	ppm	
Iron	Fe	52	72	13	18	ppm	Seaweed is also rich in
Magnesium	Mg	247	345	81	114	ppm	minerals, trace elements and growth hormones.
Molybdenum	Mo	13	18	7	10	ppm	
Selenium	Se	3	4	2	3	ppm	
Sodium	Na	2638	3693	1728	2419	ppm	-
Zinc	Zn	65	91	22	31	ppm	

Note: **PERMA**GRO®MARINE ORGANIC[™] contains Fish and Seaweed extracts **PERMA**GRO® MARINE VINE[™] & NPKS[™] contains Fulvic, Fish and Seaweed extracts





Manufactured by: **Blue Pacific Minerals** PO Box 67, Tokoroa 3444, New Zealand P 0800 678 444 www.bpmnz.co.nz

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