

MP NUTRISORB+

SOIL CATION BOOSTER WITH ORGANICS

PRODUCT BENEFITS

- For balancing cation exchange in low CEC soils
- Contains organic humates for increased nutrient availability
- Balanced Calcium, Magnesium and Potassium in convenient liquid form
- Nitrogen (10%) enhanced to deliver turf quality
- Versatile for sodium displacement, or simply boosting valuable cation levels in sandy soils
- Owned, developed and manufactured in Australia



FOLIAR USE: Is not recommended with this product.

SOIL APPLICATION: When applied as a soil drench, NUTRISORB Plus ensures efficient root uptake of Calcium, Magnesium, Potassium and Nitrogen and assists in the development of balanced soil chemistry that maintains sufficiency of these key nutrients.

Sandy soils that are irrigated with light water (e.g. potable) lose valuable cations through both plant uptake and leaching. NUTRISORB Plus replenishes nutrient cations in perfect balance to restore optimum soil chemistry quickly.

NUTRISORB Plus has an excellent potential to displace sodium ions from the soil profile keeping valuable exchange sites occupied by desirable nutrient ions. This makes NUTRISORB Plus a valuable tool for turf managers using non-potable irrigation water which can be higher in bicarbonates.

Containing Potassium and Magnesium, Nutrisorb also has a powerful plant conditioning capability, helping to pre-condition turf against stress and generate higher levels of resilience to cope with environmental pressures.

PRODUCT SPECIFICATIONS

10%	Nitrogen
10%	Calcium
3 %	Magnesium
1.5%	Potassium

PRODUCT INFORMATION

Composition

High cation exchanging fertiliser with excellent sodium displacing potential.

Net Volume

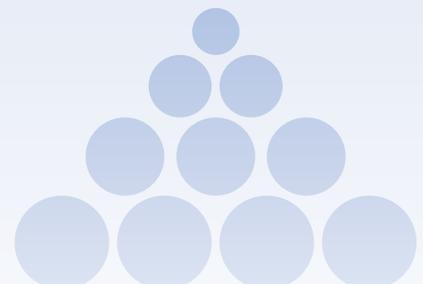
20 litres
200 litres *

Coverage

0.3 – 1.0 ha
3 – 10 ha *

Safety information

NUTRISORB Plus is made from mineral nutrient fertilisers combined with natural substances and is classified as non-toxic. However, normal precautions should be taken. If eye or skin contact occurs, wash affected area with plenty of water.



GENERAL INFORMATION

- Sandy soils have low nutrient holding capabilities and therefore lose nutrient cations readily, to both plant uptake and to leaching.
- Calcium and Magnesium play major roles in the development of plant cell walls, plant photosynthesis and other major plant functions especially during the cell division stage.
- Calcium and Magnesium are dominant soil cations that occupy the majority of cation exchange sites in healthy turf soils and are central to the creation and maintenance of a pedal soil structure
- Calcium directly affects the osmotic (water) potential of leaf tissue by ensuring the integrity of cell membranes thereby enabling more effective retention of plant tissue water.
- Calcium plays a key role in protecting cells from toxins and in slowing the ageing process.

Calcium deficiency in professional turf can occur even when applied regularly and in what should be sufficient quantity. This situation is frequently encountered on constructed sand profiles found on golf and bowling greens. An inherently low cation exchange capacity (CEC) is often the cause and has the net effect of limiting the availability of mineral nutrients currently in the profile and significantly impairing the potential to retain any further nutrients.

Naturally low CEC soils are further challenging when irrigated with water of lower quality. Recycled water and water sourced from dams and on-site reservoirs is often higher in bicarbonates which adversely impact upon soil chemistry and structure. The bicarbonates react with free calcium preferentially generating insoluble precipitates while the sodium efficiently competes with desirable cations for limited binding sites.

Our challenge was to find a product that could assist in displacing sodium allowing desirable cations to take residence on exchange sites and offered the turf manager a single application for Calcium, Magnesium and Potassium with the assurance that uptake would be efficient and therefore effective.

In this formulation Calcium, Magnesium, Potassium and Nitrogen are further enhanced with a low molecular weight humic substance (fulvic acid) that is readily taken into the plant through the root system. A powerful organic electrolyte, fulvic acid is credited with the ability to balance and energise plant cells. With a unique capacity to dissolve minerals and trace elements, the fulvic acid in NUTRISORB Plus serves to fast track the plant-availability of calcium while simultaneously enhancing the physical well-being of plants and soil microbes.

DIRECTIONS FOR USE

Situation	Rate	Comments
Soil application: Greens and fine turf, fairways, sportsturf, Lawns and landscape	20 – 60 L / ha	Apply in sufficient volume of water to place the product below foliage, to assist delivery into root zone soil. Schedule irrigation as soon as is practicable to wash the ingredients down into the root zone without excessive flushing.

DISTRIBUTORS

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