



SYMBIO

KIESERITE 16% MgO

Ensure that soil nutrients remain plant available by balancing base saturation rates of the key soil nutrient cations

BENEFITS

- Correct balance of magnesium ensures availability of other key nutrients
- Substantially reduce nitrate and phosphate inputs
- Reduce the quantity of inorganic fertilisers needed for healthy grass growth
- Low inorganic inputs help the development of a healthy soil food web for fine grass growth

Correct magnesium levels are needed for quality rootzones and efficient nutrient uptake. Magnesium should comprise at least 5% and up to 12% of the base cations in the soil. Kieserite is the most effective way to manage magnesium shortfall in the long term.

Kieserite 16% MgO

is an easy to apply greens grade granule. The greens grade granules do not easily leach.

Application guide: *For best results consult your Symbio representative.

J	F	M	A	M	J	J	A	S	O	N	D

**PACK
SIZE:
25kg**

Application

25–50 g/m² in spring or early summer, mix with top dressing or apply by itself - brush into tine holes after aeration

Apply annually until soil magnesium levels reach desired level.

For best results your soil should be analysed for all nutrients, organic matter, cation exchange capacity and conductivity.

Your Symbio technical advisor will arrange for your rootzones to be analysed and the results interpreted.

25-50g/m²

pH: 5.4-10

0.5-1.5mm

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BASE SATURATION: Ca, Mg, K

Technical Information

Calcium, Magnesium and Potassium are key soil nutrients and are essential to maintaining soil structure, soil pH and nutrient availability. A balanced soil chemistry is key to plant growth. Soil lacking in these minerals can result in poor growth and wasted fertiliser application.

High Sodium levels in the soil cause plant wilt. Potassium protects cell walls, and therefore levels of potassium need to be higher than sodium to protect plants from wilt. Soluble calcium is also able to displace sodium from soil.

However, calcium deficiency often occurs in sports turf, where sand is the key component in the rootzone. The situation is exacerbated when irrigation water is high in bicarbonates. The negative charges in the bicarbonate tie up the calcium making it unavailable to plants.

A soil test can be used to determine concentration of key soil nutrients and correct imbalances, to ensure that nutrients remain plant available. If nutrients can't be utilised by the plants then fertiliser applications will be expensive and will not produce the desired results.

High sodium levels in soils destroy soil structure, impact soil pH, and make nutrients less available. Soluble calcium reduces sodium levels, flocculates soil improving structure and keeps nutrients available for plants.

SYMBIO Gypsum, Calcium Carbonate and Kieserite

can be used to improve soil chemistry and ensure that rootzones support healthy plant growth. For best results consult your Symbio advisor who will complete a soil test and provide recommendations on how to correct and balance your soil chemistry.

Base saturation rates - Approx. % Ratios (for TURF)

Calcium (Ca ²⁺)	Magnesium (Mg ²⁺)	Potassium (K ⁺)	Sodium (Na ⁺)	Hydrogen (H ⁺)	Others
68%	12%	5%	<2%	10%	3%

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