



INNOVATIVE and AUSTRALIAN

MANNI-TURF Ca

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Essential for growth of shoots and roots



Calcium aids in the formation and strength of cell walls and is necessary for the development of grass. It is also required for early root growth and new top growth.

MANNI-TURF Ca FEATURES

- Eliminates Calcium hidden hunger and other Calcium deficiencies
- Improves turf durability
- Offsets the affects of sodium
- Contains no chlorides which can cause serious plant injury
- Contains leaf penetrants and translocation aids

MANNITOL COMPLEX PRODUCTS

Manni-Turf Ca is based on the world patented Mannitol technology. Essential plant micronutrients are complexed in an organic sugar alcohol to create a highly efficient foliar trace element fertilizer. The small molecular size and delivery package containing humectants, spreading and penetrate agents further ensures that the complexed nutrients are phloem and xylem mobile.

CALCIUM DEFICIENCY

- Symptoms are often the last gasp of very sick turf.
- First, symptoms appear on new blades and the upper parts of old blades.
- A red to rust colour appears in vertical streaks near the edges of the blades.
- As the deficiency intensifies, the blade tips curl and eventually die.
- Blades become wrinkled and may have a high incidence of disease.
- A proliferation of stubby branched roots, sometimes brown at the tips, is an early indicator of Calcium deficiency.

CALCIUM MOBILITY IN PLANTS

Calcium is a relatively immobile element in plants and this causes some well known disorders. **Manni-Turf Ca** is specifically designed to provide calcium to plants more efficiently than other forms of calcium. Manni-Turf sugar alcohol encapsulates the calcium ion enabling it to move into the plant via the phloem, where sugars move more easily towards forming tissue. Once the **Manni-Turf Ca** reaches the fruit forming tissue the sugar bond breaks down and the calcium flows to where it is needed.

ANALYSIS

14.7% (w/v) Calcium, as Manni-Turf sugar alcohol complex.

PACK SIZE

10 litres



FOLIAR APPLICATION

Apply 50-100mL per 100m² of turf (5-10 litres per hectare) in a convenient volume of water (not less than 400 litres per hectare).

Repeat applications throughout the growing season as a maintenance program. Increased application frequency may be needed to correct existing deficiencies.

SOIL APPLICATIONS

Apply 100-150mL per 100m² as a pre-plant application.

MIXING INSTRUCTIONS

Put 1/3 of water in tank

Add pesticides, other fertilizers and adjuvants. Do not mix with phosphate based fertilizers.

Fill tank with water and agitate.

Add required amount of Manni-Turf Ca.

Agitate until mixed.

Always conduct a jar test to determine compatibility.

GENERAL RECOMMENDATIONS

For use in a balanced fertility program for all turfgrasses requiring calcium