



INNOVATIVE and AUSTRALIAN

MANNI-TURF Mn

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Vital for respiratory system and protein synthesis



Manganese is essential for phosphorus and magnesium uptake and aids in the utilization of nitrogen

MANNI-TURF Mn FEATURES

- Smallest molecule delivering nutrients to plants
- Contains surfactants and humectants for better contact and adhesion
- Aids in prevention of Bermuda Grass Decline, Curvularia Blight and Take All Patch
- Delivers nutrients directly to phloem and xylem

MANNITOL COMPLEX PRODUCTS

Manni-Turf Mn 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.

MANGANESE DEFICIENCY

- Symptoms expressed in the lower leaves, due to the nutrient being mobile within the plant.
- Plants with magnesium deficiency will have a general loss in green colour starting with the older leaves, and chlorosis occurs between the veins due to chlorophyll breakdown.
- Manganese, like calcium can be deficient in soils with pH problems and coarse texture.

MANGANESE MOBILITY IN PLANTS

The spreading and adhesion characteristics combined with the small molecule size of **Manni-Turf Mn** ensures rapid and effective uptake of the manganese guaranteeing that the plant is well supplied with this nutrient. The **Manni-Turf Mn** complex allows manganese to travel through the phloem enabling it to be available for plant tissue utilization.

ANALYSIS

2.8% (w/v) Nitrogen as Nitrate, 5.6% (w/v) Nitrogen as Urea, 6% Manganese as Manni-Turf sugar alcohol complex.

PACK SIZE

10 litres



For more information about MANNI-TURF Mn other BARMAC products visit www.barmac.com.au or one of our distributors.
Barmac Industries Pty Ltd Swanbank Australia

Manni-Turf Mn . B0707 V1

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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 Mn.

Agitate until mixed.

Always conduct a jar test to determine compatibility.

GENERAL RECOMMENDATIONS

For use in a balanced fertility program for all turf grasses requiring trace elements. This product may also be used with foliar applied pesticides.