

Manni-Plex® Root Builder

Manni-Plex Based Turf Micronutrient Blend

Product Data Bulletin

Features

- Smallest molecule delivering nutrients to turf
- Contains surfactants and humectants for better contact and adhesion
- Delivers nutrients directly to phloem and xylem
- Growth Forming Locations (GFLs) fed more effectively
- Deepens green color
- Enhances chlorophyll production
- Enzyme catalyst

MANNI-PLEX ROOT BUILDER is a uniquely complexed nutrition supplement using a mix of natural sugar compounds collectively known as Manni-Plex, which readily complexes with the metal ions. This unique complex enables the nutrients to move more easily into the turf via the phloem and xylem.

Manni-Plex, the micronutrient delivery system, is a unique sugar alcohol formulation that provides smaller molecules for improved foliar delivery to stomatal openings and transcuticular pores. Smaller is definitely better. While other supposed foliar products have to be broken down inside the plant, wasting time and plant energy, the unique chemistry of Manni-Plex products are taken up directly by the Phloem, the main artery of the plant that delivers nutrients to the GFLs (Growth Forming Locations).

General Recommendations

Greens and Tees

2-4 fl. oz. per 1000 sq. ft.

Fairways and Sports Turf

2.5 - 5.5 quarts per acre.

Overseeding

2 fl. oz. per 1000 sq. ft. after germination.

Sod Installation

2 fl. oz. per 1000 sq. ft. at installation.



Guaranteed Analysis 3-0-0

Total Nitrogen (N)	3.0%
7.0% Urea Nitrogen	
7.0% Nitrate Nitrogen	
Magnesium (Mg)	0.50%
0.50% Water Soluble Magnesium	
Boron (B)	0.20%
0.20% Water Soluble Boron	
Copper (Cu)	0.05%
0.05% Water Soluble Copper	
Manganese (Mn)	0.90%
0.90% Water Soluble Manganese	
Zinc (Zn)	4.70%
4.70% Water Soluble Zinc	

Derived from Zinc Nitrate, Magnesium Nitrate, Manganese Nitrate, Copper Nitrate, Urea and Sodium Borate.

Mixing Instructions

Put 1/3 to 2/3 of total desired water volume in tank. Add adjuvant(s) if desired and agitate until thoroughly mixed. Add pesticide(s) if desired and agitate until thoroughly mixed. Add desired amount of MANNI-PLEX ROOT BUILDER and agitate until thoroughly mixed. Fill tank with remainder of desired water. A jar test is a good field practice for evaluating compatibility of multiple chemical mixtures. Check compatibility with chemical mixtures especially non-chelated micronutrients.

Use a minimum of 1 gallon water per 1,000 square feet with ground spray equipment. For best results apply as a foliar spray early in the morning or late evening. MANNI-PLEX ROOT BUILDER can be applied via fertigation systems. Do not apply phosphate based fertilizers or high alkaline fertilizer solutions such as potassium carbonate during the same irrigation cycle. The use of an adjuvant may be desired to improve the properties of spray solution. Performing trials with adjuvants may be useful in determining the best inclusion rates for optimal performance. Optimum rate of application will vary depending on your soil properties such as soil pH, organic matter content and soil texture, weather conditions, time of year and general turf health and species. For best results, follow soil test or plant analysis recommendation.

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