

# MACRO-SORB PROGRAM GUIDE

## Basic Plant Health Foundation

Build a strong foundation of plant health to support the rest of your agronomic program

Product	Rate	Timing
Macro-Sorb Foliar	1.0 – 2.0 Fl. Oz/M (43 – 86 Fl. Oz/Ac)	Apply every 7 – 14 days throughout the growing season as part of your foliar spray tank mix. During periods of prolonged stress, apply 2.0 Fl. Oz. weekly.



- Delivers high concentrations of free L-amino acids directly to the foliage for fast uptake
- Enhances photosynthetic capacity and increases stress tolerance
- Improves the efficiency of nutrients and other products by enhancing their foliar absorption and translocation

Product	Rate	Timing
Macro-Sorb Radicular	4.0 – 6.0 Fl. Oz/M (1.36 – 2.0 Gal/Ac)	Apply every 7 – 14 days throughout the growing season as part of your soil spray tank mix. For maximum effectiveness, water into root zone after application.



- Enhances root mass production to build plant health and stress resistance
- Improves soil nutrient availability and up-take through the roots
- Improves the efficiency of soil applied treatments by increasing their root absorption and translocation

## Quelant Nutrient Use Efficiency

Complexed with Macro-Sorb amino acids for improved nutrient uptake and mobility

Product	Rate	Timing
Quelant Ca	1.0 – 2.0 Fl. Oz/M (43 – 86 Fl. Oz/Ac)	Apply every 7 – 14 days. Increase rate to 3.0 Fl. Oz. when needed to correct calcium deficiency.
Quelant K	1.5 – 2.0 Fl. Oz/M (65 – 86 Fl. Oz/Ac)	Apply every 14 – 21 days throughout the growing season. Frequency may need to be increased at times based on plant nutritional needs.
Quelant Minors	1.0 – 1.5 Fl. Oz/M (43 – 65 Fl. Oz/Ac)	Apply every 14 – 28 days throughout the growing season. Use 2.0 ounces every 7 – 14 days prior to special events.

Quelant products combine quality fertilizer components with Macro-Sorb's L-amino acid technology to improve nutrient absorption, translocation, and activity withing the plant.



# DEFEND Stress Defense / Root Function

Decrease turfgrass vulnerability to environmental stresses and threats to plant health

Product	Rate	Timing
Macro-SI	1.0 – 2.0 Fl. Oz/M (43 – 86 Fl. Oz/Ac)	Apply every 14 – 28 days throughout the growing season. During periods of heavy stress or prior to special events, apply more often to improve playing conditions.
Macro-PHITE	1.0 – 1.5 Fl. Oz/M (43 – 65 Fl. Oz/Ac)	Apply every 14 – 28 days for maintenance applications prior to onset of biotic or abiotic stresses. Apply up to 2.0 Fl. Oz. every 7 – 14 days when environmental conditions favor turfgrass stress.



DEFEND products utilize Macro-Sorb's innovative peptide technology to improve turf resistance to biotic stresses caused by high pathogen pressure and abiotic stresses caused by adverse climatic and soil conditions.



## Targeted Macro-Sorb Programs

Enhance specific parts of your agronomic program with these target applications

FASTER AERATION RECOVERY		
Product	Rate	Timing
Macro-Sorb Radicular	6.0 Fl. Oz/M (2.0 Gal/Ac).	Apply 2 – 4 days pre- and 2 – 4 days post aeration to promote strong root growth and speed recovery from cultural practices.

IMPROVED SEEDHEAD CONTROL		
Product	Rate	Timing
Macro-Sorb Foliar	2.0 Fl. Oz/M (86 Fl. Oz./Ac).	Add Macro-Sorb Foliar to each seedhead suppression application to improve seedhead control.

SALT STRESS RELIEF		
Product	Rate	Timing
Macro-RELIEF	3.0 – 6.0 Fl. Oz/M (1.0 – 2.0 Gal/Ac)	Apply every 7 – 14 days when high levels of salt are present in the soil, irrigation water, or during periods of irrigation restrictions or drought.



**MACRO-SORB®**  
— LESS STRESS...BETTER TURF —