

MACRO-SORB® RADICULAR

Macro-Sorb Radicular is specifically formulated for maximum performance in the root zone. Its plant nutrients and unique free amino acid complex are designed to work together to promote root production and function.

The amino acids in Radicular are specifically chosen to promote root growth, and to encourage new root initiation. It complements your regular fertilization programs and is recommended throughout the growing season for added stress tolerance.



Guaranteed Analysis

Total Nitrogen (N).....	3.00%
2.1% Ammonical Nitrogen	
0.9% Other Water Soluble Nitrogen	
Available Phosphate (P ₂ O ₅).....	1.00%
Soluble Potash (K ₂ O).....	2.00%

Amino Acid Content

Free Amino Acids (Total).....	4.00%
Natural Amino Acids (Total).....	6.00%
Organic Matter.....	7.00%

Derived from: Potassium Sulfate, Ammonium Sulfate, Phosphoric Acid, and Protein Hydrolysate

Rate:

Apply 4–6 oz. per 1,000 sq. ft. every 7–14 days. When using sprayer systems, water into root zone within 6 hours. Apply directly to soil prior to laying sod. For soil drench applications, use 0.2 to 1.2 oz. per gallon of water.



Macro-Sorb Technologies LLC
25 Roland Avenue Mount Laurel, NJ 08054
888-971-1834 macrosorb.com

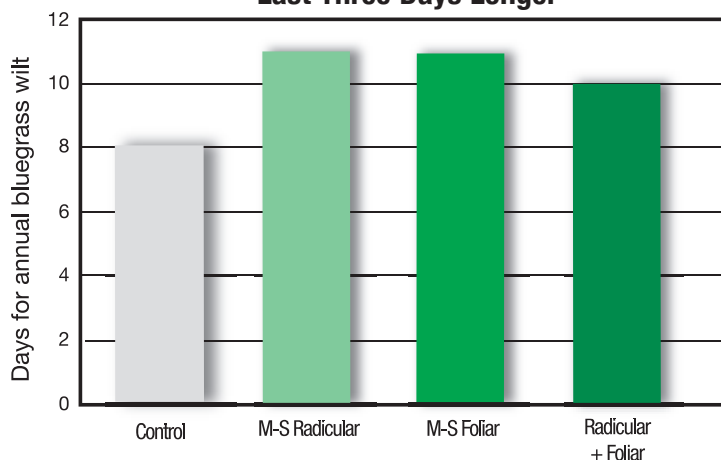
MACRO-SORB® RADICULAR

WHEN TO USE:

- ◆ Pre- and post-aeration – Reduces stress and improves recovery from cultural practices
- ◆ Prior to and during abiotic stress – Helps the plant conserve energy and survive during environmental stresses
- ◆ With applications of systemic fungicides, herbicides, PGR's and fertilizers that are taken up by plant roots – Improves the performance of systemic agrichemicals
- ◆ During seeding, sprigging or sodding – Improves rooting and shortens time for plants to reach maturity

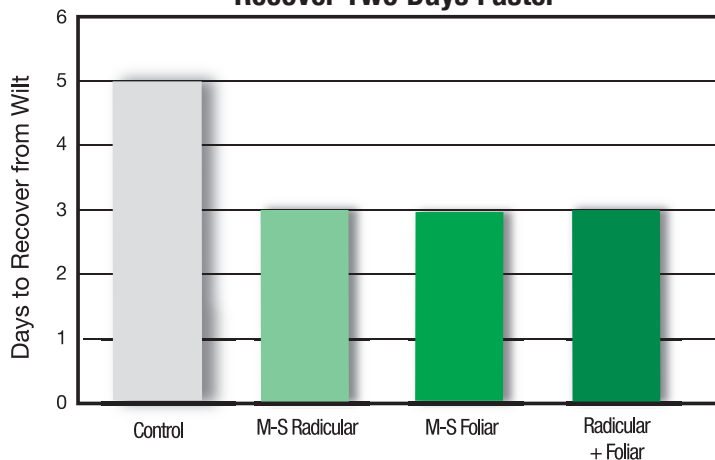
Drought Stress Tolerance

Last Three Days Longer



Treatments applied every 10 days

Recover Two Days Faster

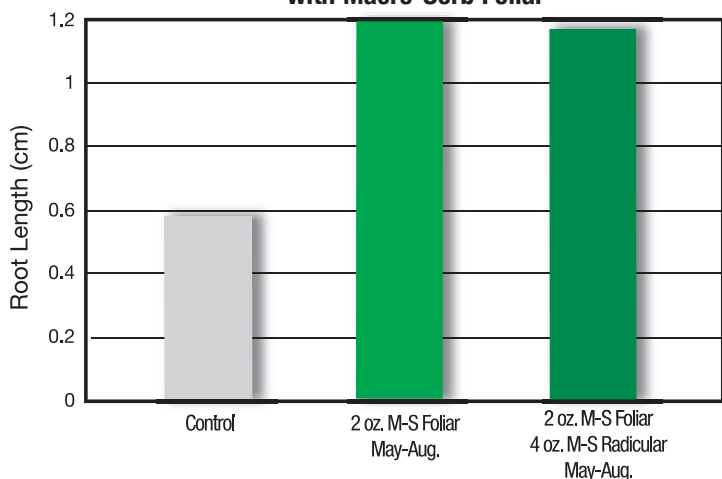


Treatments applied every 10 days

During stressful conditions, plants are unable to perform normal synthesis of amino acids. By applying Macro-Sorb amino acids prior to the onset of drought stress, plants are able to prolong wilting and also recover from wilting faster.

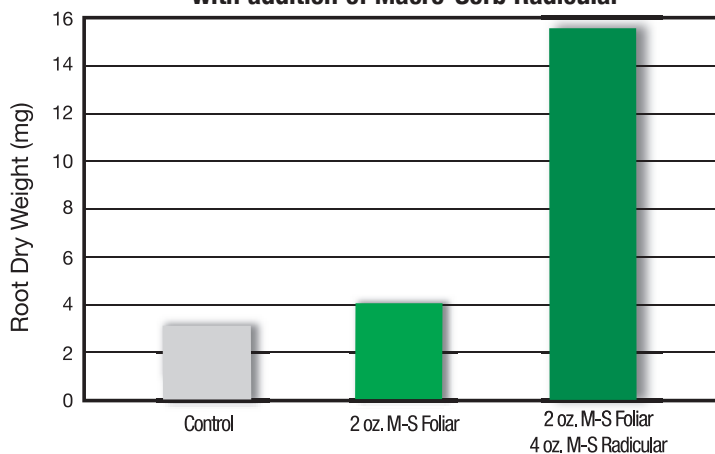
Root Length and Root Mass Production

Root length increased by approximately 200% with Macro-Sorb Foliar



Treatments applied every 14 days

Dry root weight increased by 500% with addition of Macro-Sorb Radicular



Treatments applied every 14 days

While root growth significantly increased following Macro-Sorb treatments, shoot growth was relatively similar to the untreated control, indicating an increase in stored energy used for root development of creeping bentgrass when put under abiotic stresses.