

STRESS RELIEF, AERATION RECOVERY, AND ROOT ZONE PROGRAM



MACRO-SORB® RADICULAR

Macro-Sorb Radicular is specifically formulated for maximum performance in the root zone

- The amino acids in Radicular are specifically chosen to promote root growth and to encourage new root initiation.
- Increases stress tolerance throughout the growing season and promotes rapid aeration recovery
- Apply 4.0 fl. oz/M biweekly for root zone maintenance. For enhanced aeration recovery, apply 6.0 fl. oz/M prior to and following aeration.

MACRO-SI™ ADVANCED SILICON

Macro-SI is a proprietary formula containing soluble silicon activated with a complex of amino acids to boost absorption of silicon into plant tissue.

- Silicon reinforces cell walls and membranes, leading to an increase in wear tolerance to turfgrass plants, especially prior to special events and aeration.
- Macro-SI can be taken up by plant roots or shoots; however, greater absorption efficacy is achieved following soil applications at 1.0 – 2.0 fl. oz/M

MACRO-PHITE™ PERFORMANCE PHOSPHITE

Macro-PHITE is a dual-action phosphite fertilizer formulated with Macro-Sorb L-amino acids to increase a plant's resistance to biotic and abiotic stresses.

- Taken up by plant roots or shoots – Highly mobile within the plant
- Amino acid complex helps prevent phosphite oxidization to provide a more stable compound compared to standard phosphite fertilizers

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**MACRO-SORB®**
— TECHNOLOGIES LLC —
ADVANCED AMINO ACID NUTRITION™

MACRO-SORB COOL SEASON ROOT GROWTH TRIALS

Field Trial – Georgia – Creeping Bentgrass



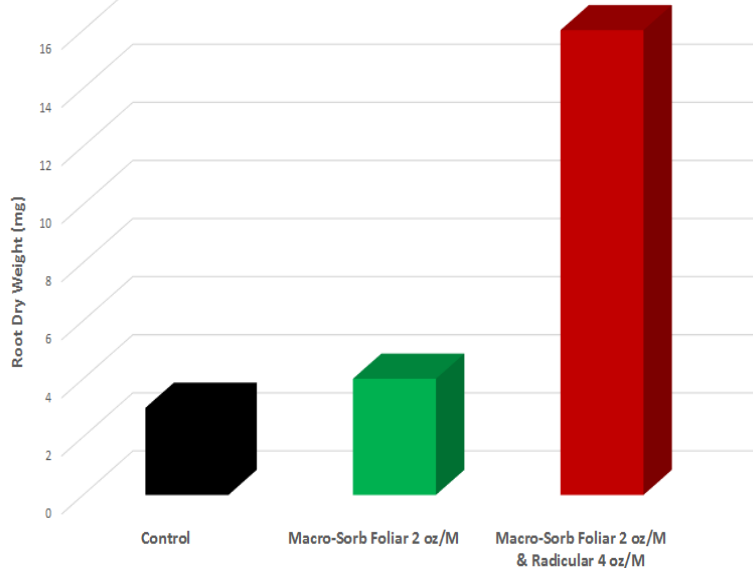
Control (left)
 Radicular (center)
 Radicular + Macro-SI (right)



Control (above)
 Radicular + Macro-SI (below)

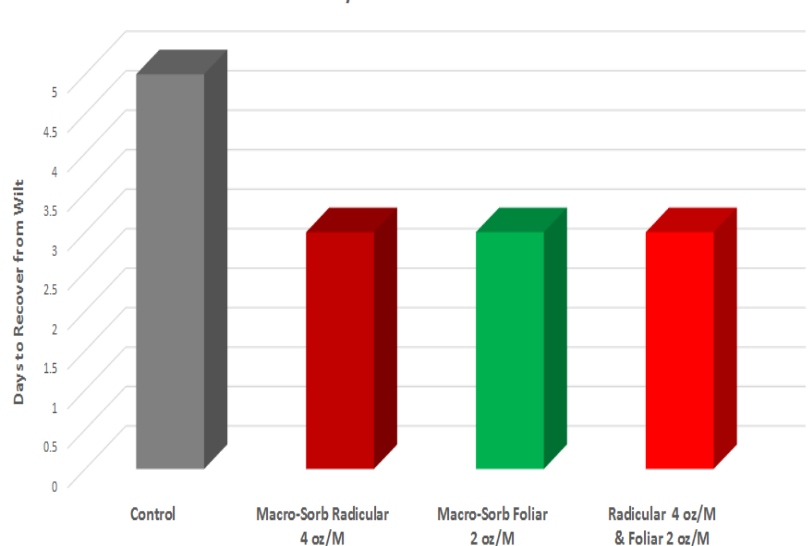
University Research—Virginia Tech and Penn State

Effect of Macro-Sorb Radicular on Root Mass



Applications were made from May 14 to August 6 every 2 weeks, data was collected 2 weeks after last treatment.

Recovery of Poa annua from Wilt



6 Applications were made every 2 weeks over a 12 week period
 All plugs were rehydrated to field capacity and then evaluated for recovery

MACRO-SORB COOL -SEASON ROOT ZONE PROGRAM

Apply Macro-Sorb Radicular, Macro-SI and Macro-PHITE as a tank mix and water in application with at least a few turns of the irrigation heads. Repeat application every 14-21 throughout the growing season to enhance rooting and increase summer stress tolerance of cool season turfgrass.

Macro-Sorb Radicular: 4.0 - 6.0 fl. oz per 1000 sq. ft.
Defend Macro-SI: 1.0 - 2.0 fl. oz per 1000 sq. ft.
Defend Macro-PHITE: 1.0 - 2.0 fl. oz per 1000 sq. ft.

**Improve soil moisture uniformity by adding in a high quality soil surfactant such as SMS 700 or SMS 400*