



# Aerification

Aerification and topdressing are key fall cultural practices to provide stress relief for both your turfgrass and growing mediums. Aerification relieves compaction, manages thatch, and aides in the restoration of proper soil porosity. It is imperative to restore playing surfaces to acceptable quality after mechanical practices are performed.

Turf managers can take advantage of applying amendments and fertilizers during this process to adjust soil's physical and chemical properties.

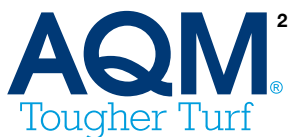
Utilizing the right surfactant will ensure proper moisture management, mitigation of soil hydrophobicity from topdressing, and rapid recovery of your turfgrass to a quality playing surface.



## Quick Recovery

Applying one of our unique, patented **Moisture Management Solutions** immediately following aerification and topdressing practices will provide proper soil moisture management to aid in rapid recovery. Each one of our surfactants provide a specific solution to fit your agronomic needs.

- Establishes uniform movement of water into and through the soil matrix
- Removes humic coatings from hydrophobic soil particles<sup>1</sup>
- Encourages root development and root mass<sup>2</sup>
- Enhances plant vigor and color



## Quickly Adjust Soil Chemistry

Applying one of our proven **Soil Solutions** during your aerification process will allow for incorporation into your rootzone. The addition of our organic complexing agent **thCa™** enhances solubility with increased availability. Each one of our Verde-Cal Products can quickly correct soil chemistry issues you are experiencing.

- Calcium available NOW for the soil (exchangeable) and the plant (extractable)
- Will leach excess Sodium and Magnesium from the colloid<sup>1</sup>
- Provides premium Potassium, Magnesium, Calcium, Iron, Manganese and L-Amino Acids<sup>2</sup>
- Quicker response at lower rates



# Quick Recovery

A uniform supply of water within the soil profile is critical during periods of plant stress to meet the transpirational demands of the plant. Equally important, is the need for a uniform supply of water to turfgrass roots during a period of recovery and repair. Without a sustained supply of water the turfgrass plant will be unable to rebuild its root system and carbohydrate reserves.



The surfactant in **AQM** provides for increased infiltration and more uniform distribution of water into the root zone which also aids in distributing the kelp extract evenly throughout the root zone.

The cytokinins and auxins in **AQM** will initiate the formation of lateral and secondary roots causing greater root mass. This action allows an increase in the root system's effective area of absorption allowing for better nutritional uptake.

*Apply 3 oz per 1000 sqft immediately following your entire aeration process (includes any application of topdressing and/or soil amendments). Return to your normal surfactant program after 30 days.*



**OARS HS**, Soil Hydrating Surfactant, is a combination of the university researched, field proven, and patented organic acid redistribution system (OARS) with a multi-branched hydrating chemistry.

**OARS HS** controls soil water repellency while providing uniform soil moisture and increased soil moisture retention.

*Apply 5 oz per 1000 sqft immediately following your entire aeration process (includes any application of topdressing and/or soil amendments). Return to your normal surfactant program after 30 days.*



**PBS150** is a long-term surfactant utilizing a unique multi-branched molecular structure to address the source of performance loss – biodegradation of the surfactant molecule by soil microbes.

The ability of **PBS150** to improve the uniform soil moisture status of turfgrass offers the turfgrass manager a highly flexible surfactant system from which to address these two critical periods of successful turfgrass management – Heat and Water Stress and Turfgrass Recovery.

*For fairways apply 3 oz per 1000 sqft immediately following your entire aeration process (includes any application of topdressing and/or soil amendments). Return to your normal surfactant program after 30 days.*

# Quickly Adjust Soil Chemistry

**Verde-Cal Products** are formulated with technologically advanced active ingredients requiring **lower product rates** for optimum soil health. The addition of organic complexing agents enhances solubility with **increased availability**. **Verde-Cal Products** allow plants to **maximize calcium uptake** and chelation of other available nutrients to achieve a balanced soil profile for healthy plant growth.



Calcitic limestone combined with thCa™, an organic complexing agent, converts insoluble calcium compounds to soluble and available calcium. This allows for greater delivery of calcium to the exchange sites on the soil colloid. **VERDE-CAL** contains Aqua-Aid penetrant which synergizes with thCa, providing uniform nutrient movement into the entire soil profile.

*Apply between 5 and 10 lbs per 1000 sqft based on your soil and plant needs. Verde-Cal can be applied with your topdressing application and incorporated into your aeration holes. A rate of 10 lbs per 1000 sq ft will raise the soil pH up to one full point in most soils.*



Calcium sulfate (gypsum) is combined with thCa™, an organic complexing agent. thCa makes the calcium in **VERDE-CAL G** more readily available for soil or plant use without affecting or raising pH.

*Apply between 5 and 10 lbs per 1000 sqft based on your soil and plant needs. Verde-Cal G can be applied with your topdressing application and incorporated into your aeration holes.*



Sulfate of potash blended with VERDE-CAL G (Enhanced Gypsum), thCa™ organic complexing agent, L-Amino acids, and a soil penetrant to allow for more uniform movement into the soil, make **VERDE-CAL K PLUS** an ideal product that supplies essential nutrients of potassium, calcium, magnesium, sulfur, iron (from iron humate), and manganese all in one application.

*Apply 5 lbs per 1000 sqft*

\*All rates mentioned above are general labeled rates. Contact your local distributor or AQUA-AID Solutions Representative to learn more about specific programs that could be used at your facility.