Sili-Kal B™ 8-0-4+Ca+Si+B

Foliar Specialty Product

Sili-Kal B™ is a high calcium product combined with nitrogen and potassium providing for cell strength, disease resistance, and turf rigidity.

THE BENEFITS OF **SILI-KAL B™**

- **True Foliar™: Sili-Kal B™** is designed to be foliar applied and completely foliar absorbed while it is drying on the target plant.
- Unique organic-facilitators including plant based amino acids, organic acids and complex polysaccharides to insure optimum absorption and availability.
- Phosphate stable calcium chelate in the proper ionic form for optimum mixing, maximum absorption, and mobility within the plant.
- A unique combo product that includes calcium, boron, silicon, potassium, and nitrogen.
- Includes organic-facilitators that are completely biodegradable and are used as a food source by the micro flora.
- Calcium can be absorbed through leaf tissue if it is properly chelated.
- Contains proprietary organic-facilitators, which are formulated to be calcium specific.

GUARANTEED ANALYSIS

Total Nitrogen (N) 7.5% Nitrate Nitrogen 0.5% Urea Nitrogen	8.0%
Potassium (K)	4.0%
Boron (B)	0.05%
Soluble Calcium (Ca)	10.0%
Silicon (Si)	0.01%

Derived from: Calcium Nitrate, Urea, Potassium Nitrate, Boric Acid. Silicon

Calcium In Turfgrass Management

Facts known about Calcium that should be of importance to those who manage fine quality turfgrass.

- Calcium is one of the six macronutrients required by turfgrass. The others are: nitrogen, phosphorus, potassium, magnesium, and sulfur.
- Tissue content of the leaves should contain from a minimum of 0.50% to 1.50% Ca in the dried tissue.
- Mainly the new growth area of the root absorbs calcium from the rhizosphere. Therefore it can be cyclic with higher rates absorbed during times of new root growth and little being absorbed under conditions of little root growth as in times of stress.
- Calcium can be absorbed by the tissue and is effective when applied as a truly chelated phosphate stable foliar.
- Calcium is abundant in many soils and normally dominates the cation exchange sites in those soils.
- Liming soils poor in calcium is a typical way of increasing Ca concentrate in the soil.
- Artificial rootzone mixes high in sand such as U.S.G.A. greens are often low in exchangeable Ca.
- Just because the Ca levels look good on a soil test report does not mean the calcium can be actively taken up by the roots for several reasons. Poor new root growth, the passive way roots absorb Ca and tight adsorption of Ca by anion exchange sites in the soils, being the more important ones. Uptake of Ca by plant roots is a complicated process. The only true way to be sure of uptake in the plant is with regular tissue testing.
- The highest distribution of calcium within the plant is in the cell walls.
- Strong cell walls can help in resistance to many plant pathogens including pythium.
- Plants with high levels of calcium have an increased tolerance to many stress conditions.
- Turfgrass varieties and cultivars vary widely in their utilization of calcium.
- Truly Chelated Calcium usually is more effective than non-chelated Calcium especially when applied by foliar.

Since most golf greens, especially those grown on sand based rootzones, are usually maintained under some degree of stress it is safe to assume that adequate levels of Ca in the plants will be beneficial in your program. At times of limited root growth the best way to keep adequate levels of Ca in the plant is with regular foliar applications of good quality chelated calcium products.

Foliar Application Rates

Add Grigg Brothers **Ultraplex™** to any Grigg Brothers foliar application at the rate of 3 fl oz per 1000 Ft^2. **Ultraplex™** contains micronutrients, biostimulants and **Intake™**, a non-ionic organic surfactant which decreases drop size and enhances wetting of the entire surface area of the plant.

IMPORTANT: For best results apply as a foliar spray early in the morning or late evening. Allow to dry on plant before irrigation. Apply with 1-2 gallons of water per 1000 Ft^2.

SILI-KAL B™ is compatible with Grigg Brothers phosphates. When mixing with other brands of phosphates, use Grigg Brothers **Calcium Chelate 5%™**. With severe deficiency use the highest rate of application.

TURF GRASSES: Apply 3-6 fl oz per 1000 Ft^2. Rate can be doubled for warm season turf grass. Repeat as needed.

COMPATIBILITY: Jar test for compatibility when mixing with other chemicals.

1 U.S. Gallon • Net Weight 12.0 lbs. • 3.78 Liters • 5.45 Kg. • Specific Gravity 1.48 • pH: 1.2