



# BioSphere AgriTech SC

(SUPER CONCENTRATE)

## *Technical Specifications and Application Instructions*

### **Product Description:**

BioSphere AgriTech SC is a super concentrated complex of microbes and known soil plant amending ingredients combined with critical enzymes and the most effective microbe food sources available. The combination of these ingredients will make indigenous beneficial microbes explode in numbers in the soil. This will improve organic matter in the soil, growth patterns in plants, and fruit quality. There are no fillers. 100% of the ingredients have an active purpose for your soil and plants. BioSphere AgriTech SC is the most concentrated microbial product in Key Input Solutions' arsenal. It was formulated with such high concentration for applications where extremely low moisture for applications is critical to avoid fungal attacks, such as inoculation of row crop seeds (corn and soy seed are good examples).

### **Product Specifications:**

Bacillus Mucilaginosus	4.3x10 <sup>8</sup> cfu/g
Bacillus Subtilis	2.6x10 <sup>8</sup> cfu/g
Bacillus Megaterium	1.3x10 <sup>8</sup> cfu/g
Bacillus Licheniformis	1.3x10 <sup>8</sup> cfu/g
Bacillus Simplex	1.3x10 <sup>8</sup> cfu/g
Glomus Intraradices Endomycorhizae	368 propagules/g
Amino Acids:	12%
Appearance:	Fine tan powder
Solubility:	100% in water (some powder may remain in Suspension)

### **Benefits:**

1. Inoculates soil with diverse populations of bacteria and fungi beneficial to soil and plant life.
2. Stimulates the growth and reproduction of indigenous microorganisms.
3. Invigorates root growth.
4. Builds higher protein and sugar levels in plants.
5. Improves photosynthetic performance.
6. Helps to break up soil compaction
7. Enhances resistance to drought, pests, and disease.
8. Excellent for organic applications



## **Directions for Use:**

### Liquid Application:

1. Add 115 to 230 Milliliters of water to each 1 weight measured gram of BioSphere AgriTech SC in a pail and agitate until powder goes into full suspension.
2. Add water and other liquid fertilizers to tank as directed.
3. Add pre-mixed BioSphere AgriTech SC solution to the tank.
4. Top tank with water to disperse BioSphere AgriTech SC throughout tank.
5. Apply directly after adding to the tank.

Note: Avoid mixing biocides in the tank with BioSphere AgriTech SC as it may reduce viable microbial counts at the time of application.

### Hydroseed Application:

1. Add measured quantity of BioSphere AgriTech SC directly into hydroseed slurry and mix thoroughly until BioSphere AgriTech SC is fully dispersed throughout the slurry.
2. Apply directly after adding to the slurry.

### Dry Application:

3. Mix measured quantity of BioSphere AgriTech SC into a small amount of water and mix into a slurry.
4. Add slurry to dry fertilizers and tumble thoroughly to evenly disperse the slurry.
5. Make sure product is not tacky to the touch before applying through a spreader.

## **Recommended Application Rates:**

### Row Crop Agriculture:

In-Furrow: 7 grams per acre

Broadcast: 14 grams per acre

Application rates can vary slightly based on crop types and soil conditions.

### Horticulture and Ornamentals:

14 to 28 grams per acre (0.33 to 0.66 grams per 1,000 sf)

Application rates can vary greatly based on soil conditions.

Apply every 4 to 6 weeks.

### Seed, Transplant, Hydroseed:

14 to 28 grams per acre (0.33 to 0.66 grams per 1,000 sf)

Application rates can vary greatly based on soil conditions.

Perform liquid BioSphere AgriTech SC application every 4 to 6 weeks after initial seeding.