



# BioSphere AgriTech CRD

## Crop Residue Decomposer

### *Technical Specifications and Application Instructions*

#### **Product Description:**

BioSphere AgriTech-CRD is a very concentrated complex of microbes and known soil plant amending ingredients combined with significant amounts of critical enzymes and the most effective microbe food sources designed to enhance the decomposition of thatch while naturally eating down Stubble, Trash, heavy organic residue. The microbial populations in BioSphere AgriTech-CRD Concentrate in your soils will help reduce or eliminate thatch and the buildup of other unwanted forms of organic matter. There are no fillers. 100% of the ingredients have an active purpose for your soil and plants.

#### **Product Specifications:**

Bacillus Mucilaginosus	3.5x10 <sup>8</sup> cfu/g
Bacillus Subtilis	1.1x10 <sup>8</sup> cfu/g
Bacillus Licheniformis	5.5x10 <sup>7</sup> cfu/g
Cellulase	3,500 cfu/g
Hemicellulase	3,500 cfu/g
Xylanase	3,500 cfu/g
Amino Acids	8.5%
Appearance:	Fine gray powder
Solubility:	98% in water (some powder may remain in Suspension)

#### **Benefits:**

1. Increased decomposition of dead plant material and other unwanted organic matter.
2. Break down mowed grasses, corn stalks, and other post-harvest plant material.
3. Increases available organic material in the soil.
4. Improves air, water, and nutrient movement in soils.
5. Inoculates soil with diverse populations of bacteria and fungi beneficial to soil and plant life.
6. Bolstered with fungal groups to continue to break down dead plant material after temperatures get too cold for bacteria to be effective.



## **Directions for Use:**

### Liquid Application:

1. Add 120 to 240 Milliliters of water to each 28.35 grams of BioSphere AgriTech-D Thatcher 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-D Thatcher solution to the tank.
4. Top tank with water to disperse BioSphere AgriTech-D Thatcher throughout tank.
5. Apply directly after adding to the tank.

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

### Dry Application:

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

## **Recommended Application Rates:**

### Row Crop Agriculture:

Broadcast: 120g to 175g per hectare

Application rates can vary slightly based on crop types and diameter of plant stalks. May require two applications.

Heavy Type Crops in need of first time Crop Residue Decomposer - 175g to 240g per hectare (depending on amount of thatch, plant types, and soil conditions. Apply as needed.