

Biological Soil Moisture Management



Sorba Gro Bio represents a revolution in controlling localized dry spots (LDS) and hydrophobic soils in general.

How does Sorba Gro Bio Differ from Traditional Soil Wetting Agents?

- Works Physically
- Works Biologically
- Changes Soil Ecology

What Causes Hard to Wet Soils?

- LDS Type Microbes
- Waxy Sand Coatings
- “Bunker Living”

Sorba Gro Bio Combines Chemistry with Biology

LDS Cannot Exist Under These Conditions

- Improved Soil Moisture
- High Soil Food Level
- Productive Root Zones

Prevent “LDS” Type Microbes

- Keep a constant source of soil food applied to turf
- Build a program around other products containing soil food.

Ultimate Goal:

- Less reliance upon Soil Wetting Agents

Unlike anything else, Sorba Gro Bio addresses both the *physical and biological* aspects of treating (LDS). Sorba Gro Bio corrects LDS by manipulating soil ecology by increasing microbes that favor normal soil moisture conditions at the expense of those that favor dry, LDS conditions.

The cause of LDS is biological. It is an accepted theory that LDS is caused by certain microbes that secrete water-repellent waxy coatings around sand particles. These microbes (LDS type) depend upon dry conditions for their survival and these waxy coatings around sand particles protect them from moisture, creating an environment well suited for them but at the expense of microbes favoring normal soil moisture conditions. Once LDS type microbes become the dominate population, LDS is persistent and difficult to control. Anytime a traditional soil wetting agent is used, the LDS type microbes retreat into their waxy “bunkers” and return with a flourish once the wetting agent degrades and is no longer effective.

Sorba Gro Bio is a revolutionary hybrid product combining an effective soil wetting agent with a potent microbial stimulant.

Sorba Gro Bio Accomplishes Two Major Goals:

1. Moisture is evenly distributed throughout the root zone, even in the most hydrophobic soil.
2. A complex microbial food source is carried directly into the soil profile and root zone resulting in a sharp increase in microbes that favor normal soil moisture.

Ultimate Goal: Create Productive Root Zones

To achieve the highest level of root zone productivity and turf quality, microbes need a constant source of soil food. This can be accomplished by linking Sorba Gro Bio in a program with other products containing high levels of soil food. While the soil wetting properties of Sorba Gro Bio may last for 30 days or longer, the soil food it contains will be consumed in only 7-14 days depending on temperature.

That is why it is important to apply a soil food source every 7-14 days for optimum results. This can be accomplished in a programmed approach with BioCarb Soil Food or other products by Terra Nova containing a measure of the exclusive Biocarb Soil Food formula.

Sorba Gro Bio ensures uniform movement, distribution and availability of moisture throughout the rootzone and at the same time moves concentrated soil food into the rootzone, resulting in a sharp increase in microbes that favor normal soil moisture conditions at the expense of those creating LDS conditions.

Directions			
Timing:	Initial Application	14 days later	Thereafter: every 30 days or longer
Rate per 1000 sq. ft.:	8 oz.	8 oz.	8 oz.
Rate per Acre:	2.7 gallons	2.7 gallons	2.7 gallons
The initial application will correct LDS in most cases. If used in a rotational program with other Terra Nova products such as BioCarb and others that contain a measure of BioCarb in their formula, productive root zones can be created and less reliance upon soil wetting agents can be obtained.			

