

Mineral Magic & Organic Compost – The Perfect Marriage ?

Amorphous silica and organic compost can work together to improve soil in turf by providing a range of benefits that enhance soil structure, nutrient availability, and overall turf health. Here's how these two components can work together:

Improved Soil Structure: Amorphous silica, (Mineral Magic) is a natural mineral mined in the North West of WA and can help improve soil structure. It adds stability to soil aggregates, preventing compaction and improving water infiltration and root penetration. This helps create a healthier root environment for turfgrass.



Nutrient Retention: Amorphous silica has a high cation exchange capacity (CEC), which means it can hold and release essential nutrients such as potassium and calcium. This can prevent nutrient leaching and make these nutrients more available to the turfgrass.

Disease and Pest Resistance: Silica can enhance the resistance of turfgrass to diseases and pests. It forms a physical barrier on the grass blades, making it more difficult for pathogens and insects to attack the turf and all other biotic and abiotic stressors.

Enhanced Water Retention: Organic compost also, improves water retention in the soil. It increases the soil's ability to hold moisture, reducing the risk of drought stress in turfgrass.

Nutrient Enrichment: Organic compost is rich in organic matter, which decomposes over time to release essential nutrients like nitrogen, phosphorus, and micronutrients. This provides a steady supply of nutrients to the turfgrass.

Microbial Activity: Organic compost also encourages the growth and activity of beneficial soil microorganisms. These microbes help break down organic matter, improve nutrient cycling, and enhance soil health.

pH Balance: Both amorphous silica and organic compost can contribute to maintaining a balanced soil pH, which is important for nutrient availability. Silica can help buffer pH changes, while compost can contribute to stabilizing pH levels over time.

By combining amorphous silica and organic compost, you can create a synergistic effect that promotes healthy turf through increased biology and microbial activity, improved soil structure, and enhanced nutrient availability, ultimately leading to a lush and resilient lawn or sports field.