

# GYPSAND + LEONARDITE DRY HUMATE

## Amendments to Enhance Topdressing Sand

Improve Turfgrass Health, Build Soil Structure and Maintain Turfgrass Performance

*GypSand* is a form of gypsum that has been specifically developed for incorporation into dusting and topdressing sand to improve soil calcium levels.

### Calcium's Role in Turfgrass Management

- The main soil nutrient contributing to soil balance is calcium.
- Soils containing adequate calcium levels have good structure.
- Calcium ideally occupies 70% of the total cations in the soil.
- Calcium displaces the detrimental salt sodium.
- Low calcium levels lead to poor soil structure.
- Turfgrass grown in low calcium soils requires additional management inputs.
- Turfgrass plants utilise calcium for growth and development.

### Advantages of Using GypSand

- Hardened gypsum provides a slow release effect to build long term soil calcium levels.
- Reduces the extra granular application to apply calcium.
- Reduced labour costs.
- Less material on playing surface.
- More cost effective.
- Topdressing sand has a greater agronomic benefit.
- Maintains its integrity within the sand pile.
- Free from contaminants.

*Leonardite Dry Humate* is a concentrated form of humic acid to improve soil cation exchange capacity while supporting a strong turfgrass surface.

### Humic Acid's Role in Turfgrass Management

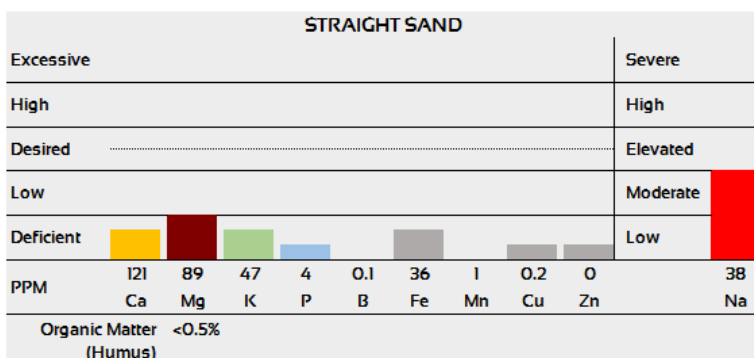
- Humic Acids are the "active ingredient" of humus.
- Humus levels influence the soils ability to support a strong turfgrass plant.
- Plant physiological process are positively impacted by humic acids.
- Physical, chemical and biological properties of the soil are improved through the addition of humic acids.
- Humic acids are a carbon rich food source for soil microbes..

### Advantages of Using Leonardite Dry Humate

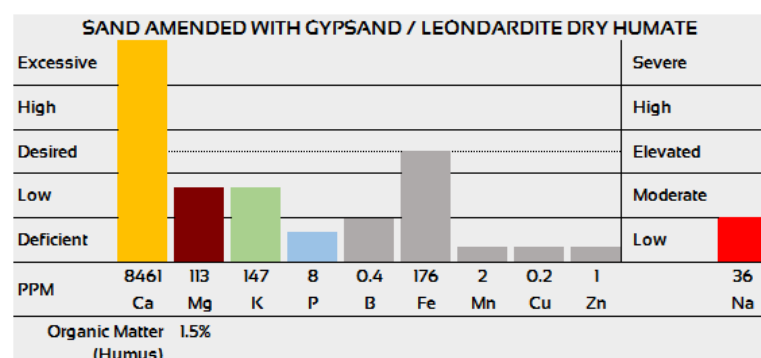
- 70% Humic Acid concentration.
- Reduce the number of additional granular applications made to the playing surface.
- Boosts soil humate levels resulting in increased CEC.
- Chelates nutrients in the soil.
- Improves soil fertility.

## Incorporating GypSand and Leonardite Dry Humate With Topdressing Sand

The CEC of the soil in many turfgrass situations is often low. Combining the GypSand and Leonardite Dry Humate in a sand blend results in a fertile material being regularly applied to the root-zone as opposed to a straight, inert sand. This continually improves the soil agronomy without the need for extra granular applications on the playing surface.



Above: Straight Sand is inert containing very little nutrition.



Above: Incorporating GypSand increases the calcium levels. Incorporating Leonardite Dry Humate improves organic matter (Humus) %