



Application Rates

EcoSand Soil Amendment Application Rates

ZEO recommends the following application rates for EcoSand Soil Amendment usage.

New Greens Construction

- 5% to 10% by volume
- 2,800 to 5,600 pounds per 1,000 cubic feet of root zone mix
These additions will increase the root zone CEC by 1 to 2 cmol/kg.
- 76 to 153 pounds per cubic yard of root zone mix

Aerification

- 75 to 150 pounds per 1,000 square feet

Top Dress

- 50 to 100 pounds per 1,000 square feet

For best results using EcoSand Soil Amendment

Since EcoSand Soil Amendment acts as a reservoir for water and plant nutrients, best results are obtained if EcoSand is charged with fertilizer before or soon after being mixed into the root zone. Water thoroughly soon after mixing EcoSand with the soil.

EcoSand is naturally charged with plant-available potassium

EcoSand is naturally charged with plant-available potassium, so initial potassium supplementation is not needed. As the soil becomes depleted in potassium, EcoSand slowly releases stored potassium; likewise, when soluble potassium fertilizers are added to the soil, EcoSand will restore lost potassium. This potassium ion exchange enables EcoSand to slowly release potassium on an as-needed basis, and reduces leaching of potassium from the root zone.

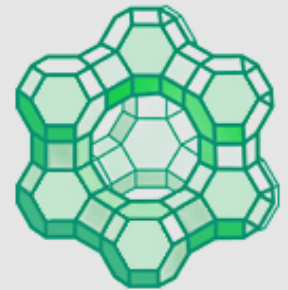
Ammonia nitrogen reservoir

By adding a source of soluble nitrogen (via an ammonium containing product), the EcoSand ammonia reservoir is loaded with ammonia ions. ZEO recommends adding a half-pound of soluble nitrogen per 100 pounds of EcoSand. Optimally, the fertilizer should be mixed with EcoSand before the soil mix is prepared.

Phosphorous availability is improved with EcoSand

Phosphorous availability is increased and is not absorbed or ion-exchanged by EcoSand Soil Amendment. In most soils and many fertilizers, phosphorous is in the form of a calcium phosphate. EcoSand absorbs or ion-exchanges the calcium into the EcoSand; thus, the phosphorous becomes available to the plant.

Zeolite Structure



A zeolite's open and negatively charged framework allows plant nutrients to move easily throughout.

[More on Zeolites](#) →



EcoSand's high CEC benefits golf courses by improving fertilizer and water usage.

[See CEC](#) →