

## Application Rates and Timing

### Z.One® N.S.C

#### General Maintenance

- After aerification, blend Z.One® N.S.C. with USGA specification topdress sand at a rate of 5 to 10% Z.One® N.S.C. by volume.
- Drag the topdress mix into the holes and level the surface with a dragmat. Irrigate after application.

#### Renovation and Construction of Greens and Tees

- Incorporate 5 to 15% by volume Z.One® N.S.C. into the construction mix, depending on the sand and other amendments being used.

#### Amendment for heavily compacted or areas with poor drainage

- Deep aerify the problem area.
- Blend Z.One® N.S.C. with USGA specification topdress sand at a rate of 25 to 50% by volume.
- Drag the topdress mix into the holes, level surface with a dragmat and irrigate.

### Z.One® T & O 250

#### New Greens Construction

- Incorporate 250 to 500 lb. per 1,000 cubic feet of root zone mix.

#### Tees, greens and other short cut grass

- Aerification Applications
  - o Aerify surface to be treated and remove cores.
  - o Broadcast 250 to 500 pounds Z.One® T&O 250 per acre (5.5 to 11.5 pounds per 1,000 ft<sup>2</sup>).
  - o Drag Z.One® T&O 250 into holes. Top dress as normal. Irrigate after application.
  - o Apply twice per year.

#### Fairways, Sports turf and other long cut turf

- Broadcast 200 to 500 pounds per acre (4.5 to 11.5 lb. per 1,000 ft<sup>2</sup>) 1 to 2 times per year. Irrigate thoroughly after application.

### Z.One® DJ 2000

#### Aerification and DryJect Applications

- General Maintenance:
  - o Apply 1,000 to 2,000 pounds per acre by DryJect equipment.

### Z.One® VitaSmart

#### New Greens Construction

- Incorporate 500 to 1,000 lb. per 1,000 cubic feet of root zone mix.

#### Tees, greens and other short cut grass

- Aerification Applications
  - o Aerify surface to be treated and remove cores.
  - o Broadcast 500 to 1,000 pounds Z.One® VitaSmart per acre (11.5 to 23 pounds per 1,000 ft<sup>2</sup>).
  - o Drag Z.One® VitaSmart into holes. Top dress as normal. Irrigate after application.
  - o Apply twice per year.

#### Fairways, Sports turf and other long cut turf

- Broadcast 500 to 1,000 pounds per acre (11.5 to 23 lb. per 1,000 ft<sup>2</sup>) 1 to 2 times per year. Irrigate thoroughly after application.



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**Z.One®** Soil Conditioner is a naturally occurring Clinoptilolite that has a rigid three-dimensional structure, which allows water and soil solution to move freely in and out of the pores.

**Z.One®** is natural, safe and non-toxic.

### Z.One® for Improved Fertilizer Efficiency

- **Z.One®** Soil Conditioners help retain nutrients in the soil and enhance nutrient absorption. **Z.One®** Soil Conditioners' crystalline structure holds nutrients until the plant roots seek them to satisfy needs. The nutrient release from **Z.One®** Soil Conditioners is plant driven, setting up a natural cycle of nitrogen, potassium and phosphorus release. **Z.One®** Soil Conditioners will recharge when an ammonium or potassium source becomes available either naturally or through application.
- **Z.One®** Soil Conditioners have a high CEC that enables a greater loading of plant nutrients such as nitrogen & micronutrients. The nutrients are held in the growth zone and are plant accessible but not water-soluble.
- **Z.One®** Soil Conditioners' negative charge provides an ideal trap for positive cations, such as sodium, potassium, calcium and positively charged groups such as water and ammonia.



### Z.One® for Buffering Capability

- **Z.One®** Soil Conditioners are marginally alkaline and help buffer the soil and reduce the need for lime.



### Z.One® for Water Retention

- **Z.One®** Soil Conditioners can hold up to 60% of their weight due to a highly porous crystalline structure. Water molecules are easily evaporated or re-absorbed without damage to the structure.

### Z.One® for Permanent Soil Amendment

- **Z.One®** Soil Conditioners do not break down over time but remain in the soil.
- The porous structure of **Z.One®** Soil Conditioners helps to keep the soil aerated and moist for a long period of time.
- **Z.One®** Soil Conditioners prevent compaction, increase filtration and help the aeration of root systems.
- **Z.One®** Conditioners are ideal as a broadcast soil conditioner for turf, lawns and gardens, as an aeration amendment for golf greens and as part of a divot mix.

There are four Z.One® Soil Amendments & Eco-Stations available!



- Pure, natural Clinoptilolite zeolite with an SGN 150.
- Ideal to improve soil structure, C.E.C., and water-holding capacity.
- Reduces nutrient leaching and improves Nutrient Use Efficiency.



- Pure, natural Clinoptilolite zeolite "ecostations" with an SGN 150.
- Pre-soaked with patented KaPre® RemeD8, KaPre® Embella and KaPre® ExAlt for sustained release of humic substances, amino acids, organic extracts and sugars.
- Safely houses beneficial microbes that fix nitrogen from the atmosphere and generate beneficial enzymes.



- Pure, natural Clinoptilolite zeolite "ecostations" with an SGN 100. Designed for use with DryJect equipment.
- Pre-soaked with patented KaPre® RemeD8, KaPre® Embella and KaPre® ExAlt for sustained release of humic substances, amino acids, organic extracts and sugars.
- Safely houses beneficial microbes that fix nitrogen from the atmosphere and generate beneficial enzymes.



- A 50:50 blend of OMRI-listed NutriSmart®-B, SGN 150 and Z.One® T&O 250, SGN 150.
- Delivers all the benefits of Z.One® T&O 250 and NutriSmart®-B.
- Replaces 10-25% of soil applied NPK!



**Steve Garner** is Golf Course Superintendent at **Pinnacle Peak Country Club** in Scottsdale, Arizona. Steve used Z.One T&O 250 at a rate of 250 pounds per acre and raked it into the sand under the sod when they rebuilt a tee complex. *"The turf rooted down in a couple of days which was 3 or 4 days quicker than an area we left as a control. There was no shrinkage around the edges of the sod and it held great color. Altogether very happy with the way the product performed. Since the renovation, despite high temps and irrigation system challenges the tee has held up extremely well."*