

Fertigation Grow-In Program – Cool Season Turf

Fertigation is an excellent tool for growing in new golf courses, sports fields, and other turf areas. Nutrients are supplied through the irrigation system to newly germinating and maturing seedlings without the damage resulting from pulling spreaders across wet and unstable soil surfaces.

Nutrient Monitoring Program

The following program should be used as a guide. Monitoring nutrient levels initially in the soil and, after germination, in leaf tissue is critical for designing the most efficient nutrient program. With diagnostic results, the fertigation program may be modified to correct imbalances and prevent future problems.

Application Recommendations

Preplant: Incorporate any lime or other granular materials as indicated by soil tests. Supply 1/2 pound of phosphorus per thousand square feet (22 pounds per acre) as **Enviro-P** between 5 and 2 days after seeding to enhance seed germination. This equals 9.4 gallons of **Enviro-P** per acre.

Grow-In Fertigation: Fertigation application should begin 1 week after seed germination. In late season grow-in conditions discontinue fertigation when soil temperatures drop below 50° F. Applications should resume in the spring as turf breaks dormancy at reduced rates and return to full rates as soil temperatures increase. The program should continue until the turf is mature (approximately 8 to 12 weeks). When the turf is mature shift to the seasonal fertigation maintenance program.

| PRODUCTS | PURPOSE | MONTHLY VOLUME PER ACRE | NUTRIENTS PER 1,000 Sq. Ft. |
|---|--|-------------------------------------|--|
| <i>Enviro Blend</i> 6-10-10 | High phosphorous and potash blend to encourage quick germination, rooting and seedling establishment. The phosphorous source is a unique combination of phosphorous and organic acids. | 20 Gallons | 0.3 Lb. N 0.5 Lb. P 0.5 Lb. K |
| <i>Turf Complex III</i> 24-0-0 0.3 chelated Fe, 0.2 Mn | High nitrogen product to push newly developing turf to fill in and mature. The chelated iron and manganese are included to promote color. | 12 Gallons | 0.7 Lb. N |
| Optional Addition <i>CytoGro</i> | An EPA registered root biostimulant containing precise levels of cytokinins and auxins. | 9 oz | |
| Optional Addition <i>H3O</i> | A soil water management product which captures moisture from the atmosphere and extends the time to drought stress | 44 oz after initial application* | |
| TOTALS | | 32 Gallons | 1.0 Lb. N 0.5 Lb. P 0.5 Lb. K |

FlexLine Products

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|-------------------|------------|---|
| Enviro Blend | 6-10-10+Zn | With phosphorous complexed with organic acids |
| Enviro Blend | 16-4-4+Zn | With phosphorous complexed with organic acids |
| Enviro K | 0-0-30 | Potassium carbonate with organic acids |
| Enviro P | 7-21-0+Zn | The phosphorous is complexed with organic acids |
| Greens Plus | 14-4-10+Zn | With 8.85% water soluble organic nitrogen (slow release) |
| Greens Plus | 12-0-12 | With 8.4% water soluble organic nitrogen (slow release) |
| GreenUp Potassium | 0-9-25 | High potassium without nitrogen |
| Multi-Purpose | 6-0-0 | Soil conditioner with organic acids and Biostimulants |
| Turf Complex III | 24-0-0 | With 0.3% chelated Fe and 0.02% chelated Mn |
| Turf Complex O | 24-0-0 | With organics |
| TurfPlex | 8-4-24 | Popular complete fertilizer with a high potassium to nitrogen ratio |
| Turf Special | 6-0-18 | With Fe and Mn |
| Turf Starter | 8-16-5 | Contains organic acids and biostimulants |

The *FlexLine* containers are ideal for use with the fertigation injectors. Often turf managers who fertigate are forced to purchase 1,000 to 2,000 gallons of bulk fertilizer at a time. This is often more than is needed for a season. *FlexLine* allows for the use of competitively priced bulk fertilizers with the flexibility to change analysis as needed throughout the season. Also, they are a cost saver since there is no need to build a pump house to accommodate large tanks, there is no need to purchase large tanks, and containment is usually not required when mini-bulks are used in fertigation.



FlexLine Mini-Bulk Tote