

An Introduction to Emerald Isle Products



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Emerald Isle Solutions™

Emerald Isle Product Categories

- Foliar Nutrients

- TrueFoliars® N, P, K, Ca, Mn, Mg, SeaSequential (+ Micros),
- Fairway Fertilizer, Fairway SeaSequential

- Biostimulants

- CPR, PanaSea Plus

- Rootzone Amendments

- SAND-AID, GroWin

- Specialty Products

- Thatch-X, Architects Blend (Pre-plant package)



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What's the “Take Away” Message?

Emerald Isle products provide:

- Seaplant extract to aid in the stress management and overall turfgrass plant health
- “Foliar Fertilization” is an effective agronomic strategy for managing high performing golf course turf conditions
- TrueFoliars® fertilizers provide the best value in foliar nutrition



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Seaplant Extract

- Seaplant extract is a major component throughout the Emerald Isle line because no other natural material has been proven to provide so many plant benefits.
- Turfgrass plant benefits:
 - Increased photosynthetic rates and capacity (**more growth and storage**)
 - Elevated antioxidant levels (**drought stress tolerance**)
 - Increased heat, drought and salinity tolerance (**stress management**)
 - Improved cell wall strength (**protect against pathogens**)
 - Enlarged root mass and increased length (**water and nutrient uptake**)
 - Enhanced chlorophyll content and production (**lower HOC tolerance**)
 - Increased systemic fungicide efficacy (**assists in translocation**)



EI's Proprietary Seaplant Extract

- Contains all the major and minor nutrients plus trace elements known to be essential for turfgrass health and growth
- Contains cytokinins & auxins – naturally occurring hormones
- They assist in managing plant stresses
 - Stimulates cell division throughout the plant (promotes growth)
 - Activates root growth and secondary roots (increases absorption)
 - Enhances interplant translocation (quicker metabolic reactions)
 - Improves early germination and growth (more rhizomes, stolons & tillers)
 - Enhances chlorophyll production (increases photosynthesis)



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Foliar Fertilization

- Diluted nutrient solutions applied directly to the turf leaf blades
- The goal is to supply the nutrients in “controlled” amounts
 - Application rates of approximately 0.1 # N every 10-14 days
- Soil applied fertilizers depend on root uptake to feed the plant
 - Roots don't function very well during times of stress (summer)
- Foliar fertilization provides effective controlled growth of the turf
 - During the summer months, controlled growth is absolutely necessary in order to successfully manage highly manicured golf course turf



Importance of Controlled Growth

- Maintains putting green quality and speed
- Produces predictable, high performing turf playability for golfers
- Sustains carbohydrate reserves in turfgrass plant (roots)
- Reduces thatch accumulation
- Decreases disease susceptibility due to overly high or low nitrogen levels



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Emerald Isle TrueFoliar® Products

- All liquid foliar fertilizers are NOT the same
- Just because you're spraying it on the grass plant doesn't mean you're spraying it in the grass plant!
- TrueFoliars® contain nutrients that are purposely designed to be small enough to be taken into the transcuticular pores of the turf leaf blades
- Transcuticular pores are more numerous than stomates and are primarily responsible for foliar uptake of nutrients



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Turfgrass Leaf Blade

Stomatal openings --
historically the entryway into foliage for liquid fertilizers. Larger openings, but more often closed than open.

**Emerald Isle
NutriRational True Foliar**

Transcuticular pore spaces --
These are always open, more numerous but smaller.
NutriRational true foliar is formulated so the molecular structures are small enough to pass through these pore spaces and penetrate into the turfgrass plant.

Nutrients -
translocate
throughout
the plant

Root uptake of fertilizer
uses plant energy, leading
to greater stress. Roots in
the summer are in a cycle
of decline, under stress and
limited in their ability to
take up nutrients



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The Value of TrueFoliar® Nutrition

- More nutrients enter the grass plant than other liquid products
- Highly effective agronomic strategy and performance when traditional fertilizers cannot be, due to environmental conditions
- Avoids soil chemistry problems
- Maintains the plant's physiological health while allowing full control of its overall growth rate



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CPR® 4-0-1 Turf Fertilizer

- Color, Performance, Roots
- Top selling product in Emerald Isle Solutions line
- A blend of our proprietary formulas and contains seaplant extract, micronutrients, and a surfactant
- The one single product which efficiently addresses both agronomic and cosmetic needs of the grass plant
- Available in 2.5 and 15 gallon containers



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TrueFoliar® N

19-1-6 with Micronutrients

- Delivers multiple types of nitrogen, in addition to phosphorus and potash
- Includes Manganese, Iron, Zinc and seaplant extract
- Application rate: 3-4 oz / M → 10-14 days
- Available in 2.5 and 15 gallon containers



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PanaSea' Plus®

0-2-2 Liquefied Seaplant Extract

- A blend of natural sea plant extracts harvested from the North Atlantic ocean, stabilized with a very small amount of phosphoric acid
- Use for maintaining golf course greens & tees and athletic fields
- Application rate: 2-3 oz / M → 10-14 days
- Available in 2.5, 15 and 55 gallon containers



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TrueFoliar® Ca

8-0-4 with 8% Calcium

- Advanced foliar nutrition package that delivers two forms of nitrogen (nitrate and urea)
- Contain 8% soluble calcium
- Application rate: 3-4 oz / M → 10-14 days
- Available in 2.5, 15 gallon containers



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El Fairway Fertilizer

30-0-0 Nitrogen

- Utilizes three different nitrogen sources (ammoniacal, nitrate and urea)
- Contain 10% seaplant exact by weight
- Application rate: 4-6 oz / M → 10-14 days
- Available in 15, 55 and 275 gallon containers



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GroWin 5-1-2

Granular Rootzone Amendment

- Designed for construction and renovation situations to accelerate the establishment of seeded, sodded or sprigged turf
- Specifically formulated for high sand content rootzones
- Approved for USGA specified greens construction
- Application rate: 25 lbs / M = 1.25 # N, .25 # P, .5 # K
- Available in 50 lb bags.



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Sand-Aid® 1-0-1

Soil Conditioner and Topdressing Component

- Blended seaplant product with high cation exchange capacity
- Assists in retaining moisture within the rootzone
- Application rates:
 - Greens and tees construction – 40-50 lbs / M
 - Aerification – 10-15 lbs / M (apply to open holes and incorporate)
 - Topdressing – 5 lbs / M (can be mixed with other topdressing materials)
 - Verticutting / Slicing / Spiking – 5 lbs / M
- Available in 50 lb bags



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Key Points to Remember

- Seaplant extract aids in the stress management and overall health of the grass plant
 - Contains all the major and minor nutrients plus the trace elements known to be essential for turfgrass health and growth
- “Foliar Fertilization” is an effective agronomic strategy for managing high performing golf course turf conditions
 - This strategy provides effective, controlled growth of the turf
- TrueFoliars® provide the best value in foliar nutrition
 - TrueFoliars® contain nutrients that are purposely designed to be small enough to be taken into the transcuticular pores of the turf leaf blades



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