Aquatrols® Redox PRODUCT OVERVIEW



A HEALTHIER APPROACH FROM DAY ONE



OUR MISSION IS TO DELIVER OUTSTANDING TURF RESULTS BASED ON
AGRONOMIC SCIENCE AND BALANCED NUTRITION. WE DON'T SETTLE FOR
SOLUTIONS BASED ON THE PAST. WE BELIEVE THAT NEW AND FORWARD
THINKING LEADS TO CONSISTENT, MEASURABLE RESULTS. AND WE BELIEVE
THAT SOLVING A PROBLEM STARTS WITH UNDERSTANDING IT DEEPLY.

DISCOVER YOUR GROWTH POTENTIAL.











GUARANTEED ANALYSIS

ALSO CONTAINS NON-PLANT FOOD INGREDIENTS

Humic Acid......8%



TurfRx C-85 is a multi-extraction humic and fulvic acid that contains short-, medium-, and long-chain soluble carbon molecules.

MICROBIAL DIVERSITY

TurfRx C-85 is soluble across a broad pH range, improving soluble carbon availability in all soil types. The availability of soluble carbon across a broad pH range increases soil microbial diversity and soil health.

NITROGEN EFFICIENCY

When combined with synthetic nitrogen, TurfRx C-85 will increase nitrogen efficiency by at least 25%.

Soil Health	Apply 0.5-2 gal/acre (0.75-3 oz./1000 ft ²) as a soil application every 1 to 3 weeks throughout the growing season. Water in.	
Water Retention	Apply 0.5-2 Igal/acre (0.75-3 oz./1000 ft^2) as a soil application every 1 to 3 weeks throughout the growing season. Water in.	
Thatch Reduction Apply 0.5-2 Igal/acre (0.75-3 oz./1000 ft²) as a soil application every 1 to throughout the growing season. Water in.		
Nitrogen Efficiency	Apply 0.5-2 Igal/acre (0.75-3 oz./1000 ft^2) as a soil application every 1 to 3 weeks throughout the growing season. Water in.	





IMRPOVES CALCIUM NUTRITION & BUILDS SOIL STRUCTURE

GUARANTEED ANALYSIS

Calcium (Ca)......20%

WHY Ca

TurfRx Ca is specifically formulated to provide concentrated plant-available calcium for plant nutrition and soil structure.

CALCIUM NUTRITION

Redox microencapsulation allows for improved calcium uptake and movement within the plant.

SOIL STRUCTURE

Redox microencapsulation prevents calcium tie-up in the soil allowing for improved soil structure.

ROOT DEVELOPMENT

TurfRx Ca supplies soluble calcium during critical root development periods. Application is most critical in Spring, Fall and post aerification.

Cell Wall Strength	Apply 0.25-5 gal/acre (0.75-15 oz./1000 ft²) as a soil application every 1 to 3 weeks. Water in.
Plant Nutrition	Apply 0.25-5 gal/acre (0.75-15 oz./1000 ft^2) as a soil application every 1 to 3 weeks. Water in.
Soil Structure	Apply 0.25-5 gal/acre (0.75-15 oz./1000 ft²) as a soil application every 1 to 3 weeks. Water in.
Root Development	Apply 0.25-5 gal/acre (0.75-15 oz./1000 ft²) as a soil application every 1 to 3 weeks. Water in.



GUARANTEED ANALYSIS

Total Nitrogen (N)	I%
0.25%	Ammoniacal Nitrogen
0.25%	Nitrate Nitrogen
0.5%	Urea Nitrogen
Available Phosphate (P2	O ₅)7%
Soluble Potash (K ₂ O)	12%
ALSO CONTAINS NON-PLANT I	OOD INGREDIENTS
2%	Humic Acid



WHY **Turffx** Fairway+ ?

TurfRx Fairway+ is a phosphorus and potassium fertilizer, containing proprietary soluble carbon compounds. **TurfRx Fairway+** reduces abiotic stress, improves root development and increases soil microbial diversity due to humic, fulvic, and long-chain soluble carbon content. **TurfRx Fairway+** utilizes technology from its proprietary TurfRx formulations of **P+**, **K+**, and **C-85**.

Turf Performance	Apply 0.5-3 gal/acre (1.5-9 oz./1000 ft²) as a foliar/soil application every 1 to 6 weeks. Water in.
Grow-in	Apply 0.5-3 gal/acre (1.5-9 oz./1000 ft²) as a soil application at seeding/sprigging. Repeat every 2 to 5 weeks. Water in.
Aerification	Apply 0.5-3 gal/acre $(1.5-9 \text{ oz./}1000 \text{ ft}^2)$ as a soil application prior to aerification and repeat post-aerification. Water in.
Abiotic Stress Defense	Apply 0.5-3 gal/acre (1.5-9 oz./1000 ft²) as a foliar/soil application every 1 to 6 weeks. Water in.
Heat Stress	Apply 0.5-3 gal/acre (1.5-9 oz./1000 ft²) as a foliar/soil application every 1 to 6 weeks. Water in.
Thatch Reduction	Apply 0.5-3 gal/acre (1.5-9 oz./1000 ft²) as a soil application every 1 to 6 weeks. Water in.
Root Development	Apply 0.5-3 gal/acre (1.5-9 oz./1000 ft²) as a soil application every 1 to 6 weeks. Water in.

TurfRx Green

Redox

IMPROVES METABOLIC ACTIVITY & GREENS NUTRITION

GUARANTEED ANALYSIS

Nitrogen (N)
0.2%Ammoniacal Nitrogen
0.8%Other Water Soluble Nitrogen
Available Phosphate (P ₂ O ₅)5%
Soluble Potash (K ₂ O)5%
Boron (B)
Copper (Cu)
Iron (Fe)
Manganese (Mn)
0.5%Water Soluble Manganese (Mn)
Molybdenum (Mo) 0. 001%
Zinc (Zn) 0.6%





TurfRx Green is a complete multi-nutritional fertilizer specifically formulated to improve turf metabolic activity and nutritional balance on golf greens. Formulated with proprietary carbon compounds, **TurfRx Green** will reduce mowing height stress, improve plant vigor, and increase overall playing surface performance and color.

Greens Performance	Apply 0.5-3 gal/acre (1.5-9 oz./1000 ft²) as a foliar/soil application every 1 to 2 weeks. Water in.
Color	Apply 0.5-3 gal/acre (1.5-9 oz./1000 ft^2) as a foliar application. Repeat every 1 to 4 weeks. Water in.
Photosynthetic Activity	Apply 0.5-3 gal/acre (1.5-9 oz./1000 ft^2) as a foliar application every 1 to 2 weeks. Water in.



INCREASES PLANT RESPIRATION

GUARANTEED ANALYSIS

Available Phosphate (P2O5).....31% Soluble Potash (K₂O) 50%





PLANT NUTRITION

TurfRx K+ Micro Crystal is formulated to provide efficient potassium and phosphorus.

ABIOTIC STRESS DEFENSE

TurfRx K+ Micro Crystal contains proprietary soluble carbon compounds that improve antioxidant production and increase plant respiration. Antioxidant production and increased plant respiration improves Abiotic Stress Defense.

Heat Stress	Apply 2-6 lbs./acre (0.7-2.2 oz./1000 ft²) as a foliar/soil application every 1 to 4 weeks. Water in.
Plant Nutrition	Apply I-6 lbs./acre (0.35-2.2 oz./1000 ft ²) as a foliar/soil application every I to 4 weeks. Water in.
Color	Apply I-4 lbs./acre (0.35-1.4 oz./1000 ft²) as a foliar application every I to 4 weeks. Water in.
Abiotic Stress Defense	Apply 2-6 lbs./acre (0.7-2.2 oz./1000 ft ²) as a foliar/soil application every 1 to 4 weeks. Water in.
Fall Hardening Off	Apply 3-6 lbs./acre (1-2.2 oz./1000 ft²) as a foliar/soil application prior to dormancy. Water in.



INCREASES MAGNESIUM NUTRITION

GUARANTEED ANALYSIS

Magnesium (Mg)......20%



WHY Mg?

TurfRx Mg is specifically formulated for magnesium plant nutrition without nitrates, sulfates or chlorides. Redox microencapsulation technology allows for improved magnesium uptake and movement within the plant. Improved magnesium nutrition enhances cholorophyll activity creating a higher level of true green playing surfaces.

Plant Nutrition	Apply 0.125-1 gal./acre (0.375-3 oz./1000 ft²) as a foliar/soil application every 1 to 4 weeks. Water in.
Color	Apply 0.125-1 gal./acre (0.375-3 oz./1000 ft^2) as a foliar application every 1 to 4 weeks. Water in.



INCREASES MICRONUTRIENT NUTRITION

GUARANTEED ANALYSIS

Boron (B)	0.66%
Copper (Cu)	0.66%
Iron (Fe)	2.1%
Manganese (Mn)	2.1%
Molybdenum (Mo)	0.01%
Zinc (Zn)	2.1%





TurfRx Micro+ is an L-amino acid micro-nutrient fertilizer. Redox chelation and complexing technology increases micro-nutrient availability. The specific ratio of each micro-nutrient will improve turf color and surface appearance of sports fields and playing surfaces.

Plant Nutrition	Apply 0.125-1 gal./acre (0.375-3 oz./1000 ft²) as a foliar/soil application every 1 to 4 weeks. Water in.
Color	Apply 0.125-1 gal./acre (0.375-3 oz./1000 ft^2) as a foliar application every 1 to 4 weeks. Water in.



STIMULATES ROOT DEVELOPMENT & METABOLISM

GUARANTEED ANALYSIS

Soluble Potash (K₂O).....5%

WHY NatureCur?

TurfRx NatureCur is a botanical extract product that contains 5% potassium. **TurfRx NatureCur** contains proprietary soluble carbon compounds that improve antioxidant production and stimulate root growth & metabolism. **TurfRx NatureCur** reduces abiotic stress by increasing root quality and quantity, resulting in improved soil health.



Abiotic Stress Defense	Apply 0.5-7.5 gal./acre (1.5-22.0 oz./1000 ft²) as a soil application every 1 to 4 weeks. Water in.
Root Development	Apply 0.25-2.0 gal./acre (0.75-6.0 oz./1000 ft^2) as a soil application every 1 to 4 weeks. Water in.
Soil Health	Apply 0.5-7.5 gal./acre (1.5-22.0 oz./1000 ft²) as a soil application every 1 to 4 weeks. Water in.
Aerification	Apply 0.5-3.0 gal/acre (1.5-9.0 oz./1000 ft ²) as a soil application prior to aerification and repeat post-aerification. Water in.

CELERATES PHOTOSYNTHETIC TIVITY

GUARANTEED ANALYSIS

Available Phosphate (P2O5)	4%
Soluble Potash (K ₂ O)	
Calcium (Ca)	
Sulfur (S)	7%





PLANT NUTRITION

TurfRx OxyCal is formulated to provide efficient potassium, calcium, phosphorus and sulfur nutrition.

ABIOTIC STRESS DEFENSE

TurfRx OxyCal contains proprietary soluble carbon compounds that improve antioxidant production and accelerate photosynthetic activity. Antioxidant production and accelerated photosynthetic activity improve Abiotic Stress Defense for playing surface recovery.

Abiotic Stress Defense	Apply 3-10 lbs./acre (1.1-3.7 oz./1000 ft²) as a foliar/soil application every 1 to 2 weeks. Water in.
Heat Stress	Apply 3-10 lbs./acre (1.1-3.7 oz./1000 ft ²) as a foliar/soil application every 1 to 2 weeks. Water in.
Turf Recovery	Apply 3-10 lbs./acre (1.1-3.7 oz./1000 ft ²) as a foliar/soil application every 1 to 2 weeks. Water in.
Color	Apply 3-10 lbs./acre (1.1-3.7 oz./1000 ft ²) as a foliar application every 1 to 2 weeks. Water in.
Aerification	Apply 3-12 lbs./acre (1.1-4.5 oz./1000 ft ²) as a foliar/soil application prior to aerification and repeat post-aerification. Water in.



STIMULATES LATERAL ROOT BRANCHING

GUARANTEED ANALYSIS

Total Nitrogen (N)	.2%
2%Ammoniacal Nitrogen	
Available Phosphate (P ₂ O ₅)	15%
Soluble Potash (K ₂ O)	.2%



TurfRx P+ is a high phosphorus fertilizer reacted with specific L-amino acids.

PHOSPHORUS NUTRITION

Redox complexing technology of phosphorus with soluble carbon chemistry reduces soil tie-up and significantly improves phosphorus efficiency.

ROOT DEVELOPMENT & LATERAL ROOT BRANCHING

Six specific L-amino acids and increased soluble phosphorus improve lateral root branching, root development, and overall soil health.

The unique formulation of **TurfRx P+** is the new standard in phosphorus nutrition and root/stolon development.

Root Development	Apply 0.25-2 gal./acre (0.75-6 oz./1000 ft^2) as a soil application every 1 to 4 weeks. Water in.
Plant Nutrition	Apply 0.25-2 gal./acre (0.75-6 oz./1000 ft^2) as a soil application every 1 to 4 weeks. Water in.
Grow-in Apply 0.25-2 gal/acre (0.75-6 oz./1000 ft²) as a soil application at seedil Repeat every 2 to 5 weeks. Water in.	
Aerification	Apply 0.25-2 gal/acre (0.75-6 oz./1000 ft^2) as a soil application prior to aerification and repeat post-aerification. Water in.



IMPROVES WATER PENETRATION

GUARANTEED ANALYSIS

Calcium (Ca)......10%
CONTAINS NON-PLANT FOOD INGREDIENTS
22%......TensioActive Ethoxylated CoPolymers



TurfRx PeneCal is a soil surfactant reacted with microencapsulated calcium. It reduces water surface tension while delivering calcium and water throughout the soil profile. **TurfRx PeneCal** improves soil structure, air:water relationships, and overall soil health.



Water Penetration	Apply 0.25-1.5 gals./acre (0.75-4.5 oz./1000 ft²) as a soil application during early season. Apply every 1 to 4 weeks.	
Salinity Management Apply 0.25-1.5 gals./acre (0.75-4.5 oz./1000 ft²) as a soil application during early season. Apply every 1 to 4 weeks.		
Soil Health	Apply 0.25-1.5 gals./acre (0.75-4.5 oz./1000 ft²) as a soil application during early season. Apply every 1 to 4 weeks.	
Soil Structure	Apply 0.25-1.5 gals./acre (0.75-4.5 oz./1000 ft²) as a soil application during early season. Apply every 1 to 4 weeks.	



Redox.

GUARANTEED ANALYSIS

EXET OUT OF REACH FOR CREATER

BUASE OF ADMITTS AND AD



CALCIUM & SILICON NUTRITION

TurfRx Si is specifically formulated to provide efficient calcium and silicon nutrition. Silicon enhances the proper uptake and organization of calcium for cell wall structure.

ABIOTIC STRESS DEFENSE

Lack of calcium and silicon nutrition leads to abiotic stress and cell wall degradation. Enhancing cell wall structure will reduce ball markings, improve ball speeds, and improve overall playing surface performance. **TurfRx Si** is unique in its ability to improve Abiotic Stress Defense.

Turf Performance	Apply 0.25-5 gals./acre (0.75-15 oz./1000 ft²) as a foliar/soil application. Apply every 1 to 4 weeks.
Plant Nutrition	Apply 0.25-5 gals./acre (0.75-15 oz./1000 ft²) as a foliar/soil application. Apply every 1 to 4 weeks.
Abiotic Stress Defense	Apply 0.25-5 gals./acre (0.75-15 oz./1000 ft²) as a foliar/soil application. Apply every 1 to 4 weeks.



INCREASES NITROGEN METABOLISM

GUARANTEED ANALYSIS

Available Phosphate (P ₂ O ₅)5%
Soluble Potash (K ₂ O)4%
Boron (B)0.14%
Copper (Cu)
Iron (Fe)
Manganese (Mn) 0.6%
0.6%Water Soluble Manganese (Mn)
Molybdenum (Mo)0.005%
Zinc (Zn)



WHY **Supreme** ?

TurfRx Supreme is specifically formulated to target plant sugar alcohol production related to nitrogen metabolism in plants. The combination of plant nutrients and increased sugar alcohols will enhance nitrogen metabolism and improve overall quality and performance.

Nitrogen Metabolism	Apply 0.25-1 gals./acre (0.75-3 oz./1000 ft²) as a foliar/soil application. Apply every 1 to 4 weeks.
Turf Performance	Apply 0.25-1 gals./acre (0.75-3 oz./1000 ft²) as a foliar/soil application. Apply every 1 to 4 weeks.
Spring Green-up	Apply 0.5-2 gals./acre (1.5-6 oz./1000 ft²) as a foliar/soil application. Apply every 1 to 4 weeks.



PHOSPHORUS METABOLIC PRIMER

GUARANTEED ANALYSIS

Total Nitrogen (N)	2%
Soluble Potash(K ₂ O))3%



TurfRx Xpect is a phosphorus metabolic primer that contains key L-amino acids.

ROOT DEVELOPMENT

Specific L-amino acids and improve lateral root branching, root growth, and overall soil health.

PHOSPHORUS NUTRITION

TurfRx Xpect increases plant phosphorus uptake. TurfRx Xpect contains no phosphorus.

The unique formulation of **TurfRx Xpect** is the new standard for root/stolon development where phosphorus restrictions exist.

Root Development	Apply 0.25-1.5 gal./acre (0.75-4 oz./1000 ft²) as a soil application every I to 4 weeks. Water in.
Plant Nutrition Apply 0.25-1.5 gal./acre (0.75-4 oz./1000 ft²) as a soil application every I to 4 weeks. Water in.	
Grow-in Apply 0.25-1.5 gal./acre (0.75-4 oz./1000 ft²) as a soil application even I to 4 weeks. Water in.	
Aerification	Apply 0.25-1.5 gal./acre (0.75-4 oz./1000 ft ²) as a foliar/soil application prior to aerification and repeat post-aerification. Water in.



NOTES				



PRODUCT HANDLING GUIDE

This document provides guidelines for the handling, mixing, and application of Redox nutritional products. PLEASE READ PRODUCT HANDLING GUIDETHOROUGHLY PRIOR TO HANDLING PRODUCTS. For additional information or assistance, please contact your Redox distribution sales representative.



SPRAY APPLICATIONS

APPLICATION GUIDELINES

- Proper application rates and frequency should be determined by specific conditions and plant requirements.
- Always jar-test before adding to a spray tank or injection tank.
- Spray and fertigation applications should be made with sufficient water, 50 mesh screens, and agitation throughout the application.
- When tank mixing with other chemicals, it is the responsibility of the end-user to assume compatibility and safety.
- Poly in-line filters should be replaced with stainless steel, if possible.
- Always consult your Redox agronomist with questions on application guidelines, rates, and frequency.

MATERIAL LOADING

- Fill the tank 50% full with water and initiate tank agitation prior to adding materials.
- Don't add material too quickly—this allows for more thorough hydration. The use of inductor assemblies is encouraged.
- TurfRx OxyCal is a dry fertilizer that must be solubilized prior to application. Refer to SDS for proper handling PPE for this material.
 An anti-foam agent is required prior to mixing TurfRx OxyCal.

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Avoid extreme shifts in tank pH. When utilizing Redox materials that acidify, check tank pH prior to adding buffers.

ARE YOU REDOX READY?

- Always jar test.
- Proper hydration is essential for all applications.
- For best results, allow sufficient time for product mixing.
- Warm water accelerates the process.
- Allow more mixing time when using cold water.
- Proper care and cleaning of equipment is essential.

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Thoroughly rinse equipment after use.









AT REDOX, WE DO MORE THAN IMPROVE SOIL. WE ENRICH LIVES—AND HAVE SINCE DAY ONE. OUR TEAM MEMBERS KNOW EVERY SUPERINTENDENT BY NAME AND MAKE RELATIONSHIPS A PRIORITY. WE UNDERSTAND THAT ONE OF THE MOST IMPORTANT THINGS WE HELP GROW IS RELATIONSHIPS.

GOOD CHEMISTRY



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WHEN YOU COMBINE OUR KNOWLEDGE OF SCIENCE,
OUR PASSION FOR THE INDUSTRY, OUR CONSULTING
CAPABILITIES, AND OUR PEOPLE-FIRST APPROACH
FOR PUTTING PEOPLE FIRST, YOU'LL SEE WHY SO
MANY ACROSS THE COUNTRY ARE TRUSTING THEIR
TURF TO US.

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LET'S TALK.

REDOX TURE

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