

EarthWorks™

A Deeper Respect

Construction Program

"You save five years of work in the first month"





The EarthWorks Construction Program

Golf course greens construction mixes are typically soil-less mediums with limited carbon, so EarthWorks asked the question “what does a soil have that a soil-less medium doesn’t have?” We broke it down into three sections: a nutrient holding capacity (CEC), an organic matrix, and a mineral base. Starting with the need for a good nutrient holding capacity, typically very low in sand mixes, we added Ecolite, a zeolite mineral. Then we built an organic and mineral package to feed both the plant and soil microbial populations. The EarthWorks construction mix has been part of hundreds of construction projects since the mid 1990’s.

The holding capacity comes from **Ecolite** that has a CEC three times higher than other common physical amendments. **Ecolite** manages moisture in the soil, first holding it then making it available to the plant. It creates soil porosity, and it acts as a reservoir for both potassium and ammonium nitrogen.

The backbone of the EarthWorks Construction program is **Renovate Plus**, which supplies both an organic and mineral base to the construction mix. To mimic a soil, we built a product that has a dynamic complex organic matrix, one that feeds soil microbes, grows strong, deep roots, helps to mobilize nutrients, and builds moisture holding humus. The mineral component of **Renovate Plus** provides the plant with most of the nutrients it needs during the grow in process and for years to come. The Plus in **Renovate Plus** is Ecolite which makes up 50% of the product and rounds out the perfect construction amendment mix.

Myco Replenish is the final step to the EarthWorks Construction Program. The addition of a mycorrhiza inoculant to the surface of the growing environment significantly helps build the root system quickly, moving roots deep into growing medium providing the plants with nutrients and water. Mycorrhiza is very effective at finding and providing the plant with phosphorus especially important during a grow in operation. They are also very important in the formation of soil glomalin a material in the soil that helps to keep the soil friable and helps to fight hydrophobicity.



The EarthWorks Construction Mix



RENOVATE PLUS

Renovate Plus is an advanced establishment, and recovery, amendment product. It mimics a soil in a soil-less medium providing the new growing mix with a holding capacity, CEC, and an organic and mineral base that allows for a quick establishment of deep strong roots. By building a carbon rich root zone less nitrogen will be needed through the grow in process, resulting in less thatch to manage later and a stronger stand of turfgrass.

Derived from: dry meal products, compost, rock phosphate, greensand, sul-po-mag, calcium carbonate, humic acids, 50% zeolite (Ecolite)

ECOLITE

Ecolite is the premier zeolite mineral. A potassium silica that is mica like in structure which allows for strong moisture management. It has an affinity for both potassium and ammonium nitrogen, holding both in the root zone for potential plant uptake. Ecolite is the main component of Renovate Plus but ideally a little more Ecolite is added to the construction program to ensure the strongest holding capacity possible. This additional zeolite also provides a needed potassium reservoir so important in sodium rich soils.

Derived from: zeolite mineral

MYCO REPLENISH

Myco Replenish is an OMRI Listed organic product focusing on mycorrhiza fungi inoculants. Mycorrhiza fungi has been proven to quickly establish strong root systems in any soil mix. Mycorrhiza enters the plant root system pulling in both water and nutrients especially phosphorus so important for the establishment of new turf. Myco Replenish is applied to the surface of the soil and lightly raked in at time of seeding or sod establishment.

Derived from: Composted poultry manure, Endo/Ecto Mycorrhizae, humic acids

PROGRAM SUGGESTIONS

There have been many successful EarthWorks amendment programs used by different turf managers. The following suggestions are an average. If you have a quick opening date adding more investment to your grow in amendments will ensure that your project is as successful as possible. The simple answer is to use as much as you can afford. **You can save five years of work in the first month.**

For more detailed information please contact an EarthWorks Agronomist.

Ideal Program for golf and sports turf construction:

350 lbs. of Renovate Plus per 1000 sq. ft. @ 6 inch depth
150 lbs. of Ecolite per 1000 sq. ft. @ 6 inch depth
25 lbs. of Myco Replenish per 1000 sq. ft. @ 1 inch depth

Ideal Program for "No Till" operations:

150 lbs. of Renovate Plus per 1000 sq. ft. @ 3 inch dept with planting
50 lbs. of Ecolite per 1000 sq. ft. @ 3 inch depth with planting
15 lbs. of Myco Replenish per 1000 sq. ft. @ 2 inch depth with planting

Carbon Balanced Grow In Program

Use Replenish 5-4-5 and/or Replenish 10-2-5 for 50% of the nitrogen used during the first ten weeks with the goal to cut back the total nitrogen applications to as low as only a few pounds. This will balance the carbon to nitrogen ratio and help to reduce thatch build so common in grow in programs.

CONSTRUCTION PARTNERS

EarthWorks has been supplying construction amendments to clients all over the world since the early 1990's. Our program has survived the test of time and continues to prove itself by speeding up the grow in time, reducing thatch build up, growing strong deep roots and providing an unquestionable return on investment. Many clients have chosen the EarthWorks construction amendments over peat moss saving money and time. The amendments are typically applied over the top of the surface and worked into the top 4 to 8 inches of soil mix, depending on amendment volume, using tilling equipment like a RotaDairon.

Golf Course Partners

Congressional Country Club
Streamsong Resort
Ozarks National
Payne's Valley Golf Course
Mountaintop Golf and Lake Club
Quail Hollow Club
Driftwood Golf and Ranch Club
Oakland Hills Country Club
Blythefield Country Club
Rockville Links Club
Dallas National Golf Club
Trinity Forest Golf Club
Pelican Golf Club
The Country Club of Orlando
Northwood Club
Vaquero Club
Stonebridge Ranch Country Club
Claremont Country Club
Lochinvar Golf Club
Governors Club
Chapel Hill Country Club
The Dunes Golf and Beach Club
Kinloch Golf Club
Stonebriar Country Club
Preston Trail Golf Club
Myers Park Country Club
Robert Trent Jones Golf Club
The Clubs at St. James
The Sea Pines Resorts
Sedgefield Country Club
San Francisco Golf Club
The Olympic Club
Mid Ocean Club

Washington Golf & Country Club
Winged Foot Golf Club
Bethesda Country Club
Atlantic Golf Club
East Orange Golf Course
Lehigh Country Club
Fiddlers Elbow Country Club
Overbrook Golf Club
Lancaster Country Club
California Golf Club
Port Royal Golf Club

Sports Turf Partners

Texas Rangers
Denison University
The Lawrenceville School
Duke University
Philadelphia Eagles
Red Bulls Academy
Seattle Mariners
University of Portland
San Jose Earthquakes
Stanford University
Seattle University
MoneyGram Soccer Park
FC Dallas
St. Louis Cardinals
Kansas City Chiefs
Sugar Land Skeeters
Frisco RoughRiders
Liberty University



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