

LEO-ZEOTURF



- Unique in Concept
- Backed by Science
- Trialled in the Lab
- Tested in the Field



Soil Amendment with a Difference

What is Leo-Zeo Turf ?

Leo-Zeo Turf is a recently developed soil amendment made from naturally occurring materials, Zeolite and Leonardite. These ingredients are sourced from some of the purest natural deposits in the world, located in Gordes, Turkey, and are processed on site to produce Leo-Zeo Turf. Leo-Zeo Turf is a homogenous, dust free granule, 0.5mm-1.5mm in size, which is used as a soil amendment for all types of sport and amenity turf.

Physical Benefits

Leo-Zeo Turf can be used to modify sand to produce rootzone to meet U.S.G.A. guidelines. i.e. particle size distribution, porosity and hydraulic conductivity. In addition, Leo-Zeo Turf can be used to amend all types of soil to help produce any type of engineered sports rootzone.

Chemical Benefits

Leo-Zeo Turf will increase the cation exchange capacity (C.E.C.) of soils which will improve the nutrient exchange, nutrient retention in the soil and nutrient uptake by the plant. This will help produce a healthier plant by making the correct nutrients available, it will reduce nutrient lock up in the soil and it will also help reduce leaching which can have significant cost savings as well as huge benefits for the environment.

Biological Benefits

Leo-Zeo Turf will improve soil structure, will help produce a healthier soil environment, will encourage development of soil microbes and will promote healthy and prolific root growth.



Safe to use

Leo-Zeo Turf is made from natural materials, with no chemical additives. It is approved for use in organic food production which means that it is safe for grounds staff, sports athletes and anyone who uses sports amenity turf.

The Producer

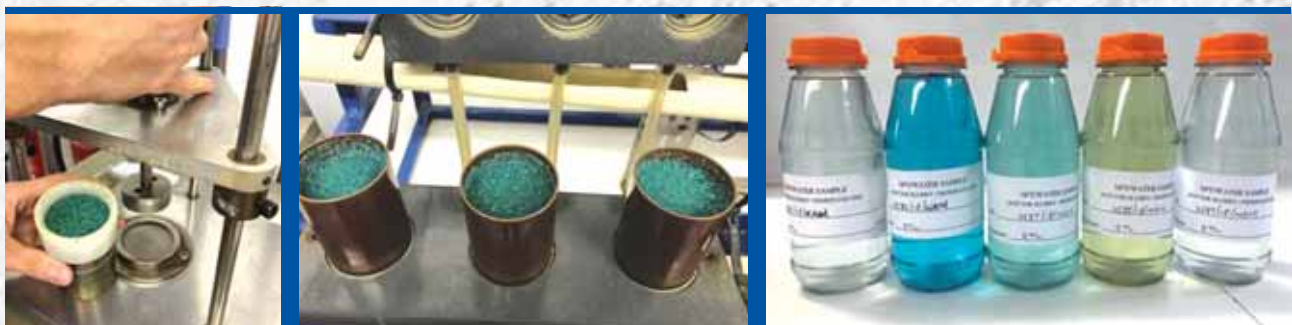
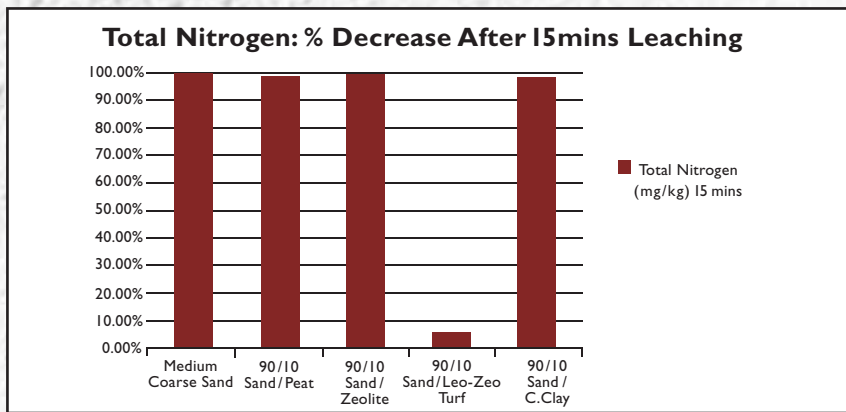
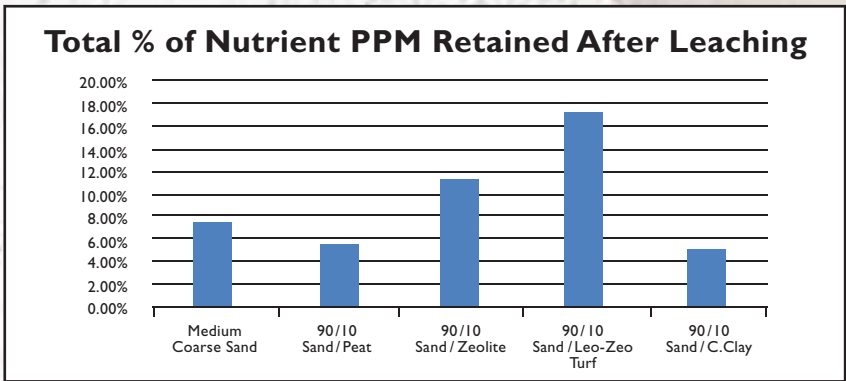
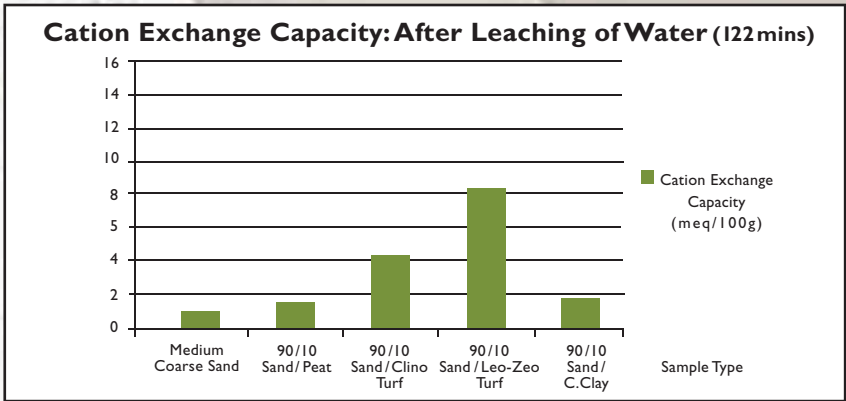
Leo-Zeo Turf is produced by Gordes Zeolite in Manisa, Turkey. Gordes Zeolite is part of the Ozturk Group which was established in 1980 by Mr Fikret Ozturk. It has since grown to a huge organisation with a turnover of \$10 billion dollars with interests in a wide range of industries such as Petroleum Distribution, Real Estate Development, Hospitality, Logistics, Technology, Agriculture, Mining and Pet Products. The state of the art mine and factory at Gordes uses the latest technology and processing methods and also enforces the strictest safety and quality control procedures for the benefit of employees, customers and the environment.

Product Research

Extensive trials were carried out by European Turfgrass Laboratories (E.T.L.) to assess the suitability of Leo-Zeo Turf as a soil amendment for sports turf and to compare it against other products normally used for this purpose.



- Leo-Zeo Turf adjusted USGA performance criteria sufficiently to conform to stipulated requirements
- Leo-Zeo Turf increased organic matter significantly compared against other amendments. However moisture retention did not increase significantly and was in line with other amendments.
- Leo-Zeo Turf significantly increased C.E.C. compared to other amendments.
- Leo-Zeo Turf significantly increased overall/general nutrient retention compared to other amendments.
- Leo-Zeo Turf retained significantly higher key nutrients than other amendments, including Nitrogen, Phosphorus, Magnesium and Calcium.



Field Trials

Following a successful series of laboratory trials, some on-site field trials were commissioned to demonstrate the benefits of Leo-Zeo Turf in the field and to independently verify same. These in-situ trials were carried out by PSD Agronomy/Labosport at Wolverhampton Wanderers training ground and the testing was carried out by ETL.



Objective

The objective was to determine the effect of Leo-Zeo Turf, over time, on a number of turf aspects such as:

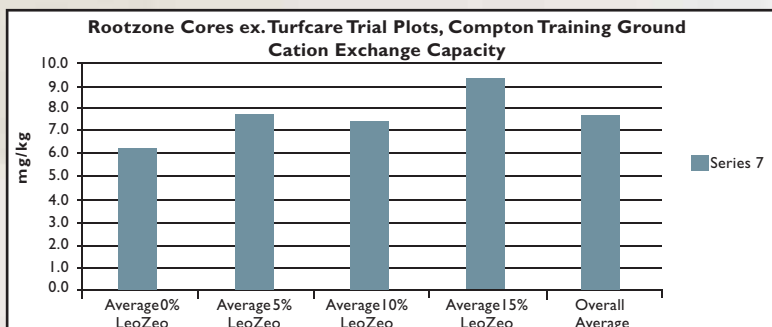
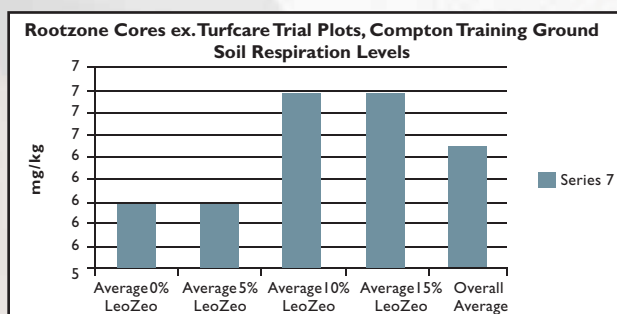
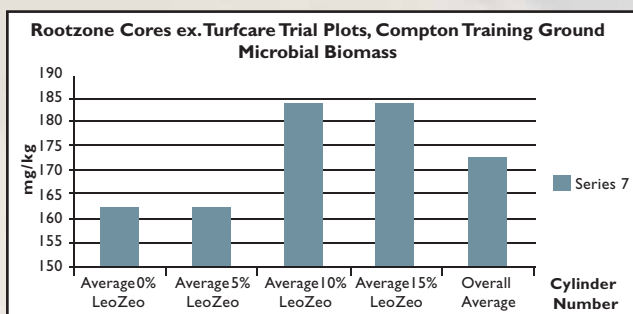
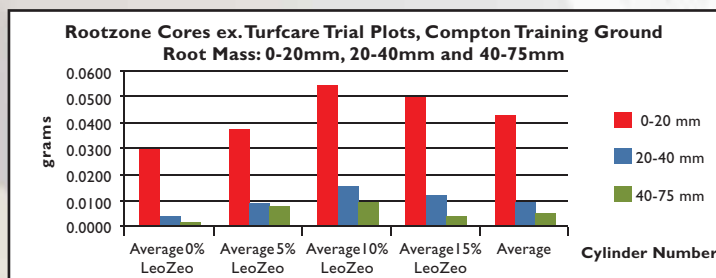
- Plant health
- Nutrient retention
- Root production
- Microbial activity (soil respiration and microbial biomass)

Methodology

An area was chosen to carry out the trial within a fully constructed Grassmaster area at Wolverhampton Wanderers Training Ground. 4 levels of Leo-Zeo (0%, 5%, 10% & 15%) were installed with 3 replicates of each in July 2018. Each plot was 2m long by 1m wide. The required amount of Leo-Zeo was added to each plot and mixed in by hand, consolidated and then stitched with Grassmaster and seeded as per the surrounding area. The area was treated the same as the surrounding area in terms of maintenance and fertiliser applications by the clubs grounds staff. Sampling took place in March 2019. Normal elite pitch maintenance programmes were ran across the 4 x plots.

Conclusions

- Total rootmass production by the plants was hugely increased by the addition of Leo-Zeo.
- Rootmass at all depths contained significant increases especially in the 40-75mm depth range where Leo-Zeo was added.
- General measures of microbial activity in soil showed increases where Leo-Zeo was added.
- CEC where Leo-Zeo was added was significantly higher.
- Phosphorus, Potassium, Calcium and Nitrogen levels were all higher where Leo-Zeo was added to the rootzone.
- Based on plant observations, root production and nutrient analysis, it is concluded that Leo-Zeo at 5% improves root and soil health. At 10% Leo-Zeo, improvement in root and soil health is further observed. In general improvement either leveled out or decline slightly at 15%.



What our customers say!

- *Leo-Zeo Turf is the best soil amendment product I have ever seen in my 30 years in the industry*
- *Leo-ZeoTurf has transformed my worst Green to my best Green*
- *I did my own seed trials in pots using Leo-Zeo Turf and I was blown away by growth and rooting*
- *Leo-Zeo Turf works fantastic in our Divot Mix*
- *Leo-Zeo Turf worked great in our weak dry problem areas*
- *Leo-Zeo Turf has given me the best mass of rooting and root depth I've ever seen from a product*
- *When we use Leo-Zeo Turf at renovation, our recovery is rapid without using Nitrogen*
- *I reduced my granular applications on my pitch by 60% during grow-in and I still got amazing results from using Leo-Zeo Turf*
- *Leo-Zeo Turf is one of the best products I've used. It's now going into every construction project and renovation job on the course*



LEO-ZEOTURF

Using Natural Products to help Nature

- Leo-Zeo Turf increased nutrient retention by circa 36%
- Rootmass production increased by 86-98% with Leo-Zeo Turf
- Microbial Biomass increased by 13% with Leo-Zeo Turf
- Soil respiration level increased by 15% with Leo-Zeo Turf
- Leo-Zeo Turf improved overall plant health
- Leo-Zeo Turf can reduce fertiliser inputs and costs
- Leo-Zeo Turf reduces water requirements
- Leo-Zeo Turf offers faster establishment and recovery
- Use Leo-Zeo Turf during construction, renovation and top dressing

Please note that the benefits listed above are based on results achieved in independent trials. As variations will occur in locations, soil types and management practices, the scale of the benefits listed cannot always be guaranteed.



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