



SYMBIO MINERAL TRACEOLITE

Benefits

- ✓ Boosts cation exchange capacity (CEC), re-mineralises poor soil
- ✓ Prevents water logging, hardens soft playing surfaces, extends winter play
- ✓ Relieves compaction, improves drainage and oxygen retention in the rootzone
- ✓ Increases water retention in summer and absorbs toxins in black layer
- ✓ Improves fertiliser utilisation increasing growth and reducing fertiliser costs
- ✓ Dramatically reduces leaching and chemical run off

SAND BASED ROOT ZONES for sports turf are essential for maintaining quality surfaces to give the desired root zone characteristics by resisting compaction while maintaining adequate aeration, water infiltration and percolation. However, sand offers little capacity for nutrient or water retention. Conversely when compacted, it holds too much water and prevents plant growth.

NATURAL LONG LASTING MINERAL Mineral TraceOlite is a natural silicate volcanic mineral with unique physical, chemical and cationic exchange properties. Its three dimensional lattice allows for a very high cation exchange (130 – 270 meq/100gm) and water holding capacity.

RETAIN WATER AND NUTRIENTS The Mineral TraceOlite structure holds up to 40% of its weight in water, drying out thatch on golf greens and worn areas on heavily used pitches.

The high cation exchange capacity, CEC, retains nutrients such as nitrogen and potassium and other trace elements and releases water and nutrients into the root zone when the plant demands, thereby reducing leaching losses from ammonium-type fertilisers.

If Mineral TraceOlite is premixed with top dressing, percolation and porosity will be increased.

APPLICATION AND TIMING

To increase drainage, dry out and firm up the playing surface. Apply 0.5Kg – 1Kg per m², (5-10 tonnes per hectare). Hollow core or solid tine the area to a depth of up to 5cm and brush Mineral TraceOlite into the tine holes. Mineral Traceolite may be mixed with top dressing.

To improve sward growth and reduce fertiliser use Apply 50 – 100gm per m² on its own through a cyclone or drop spreader. Micro tine the surface and brush or drag the Mineral Traceolite into the holes. Mineral TraceOlite may be mixed with top dressing or divot mix at any rate and applied to the surface or brushed into holes created by hollow coring or solid tining. Mineral TraceOlite may be applied at any time of year.

Symbio Mineral TraceOlite has a CEC of 150 - 190 meq/100gm; pH 7 - 9 and an internal mesopore surface area 29m²/gm and micropore surface area of 11m²/gm

Precaution

If SWALLOWED Rinse Mouth, Do not induce vomiting. IF ON SKIN Gently wash with plenty of soap and water. IF IN EYES Rinse cautiously with water for several minutes

MINERAL AND NUTRIENT CONTENT

Clinoptilolite	88 – 95%
Feldspars	3 – 5%
Montomorillonite	2 – 5%
Muscovite	0 – 3%
Cristobalite	0 – 2%
SiO ₂	65 - 72%
Al ₂ O ₃	10-12%
CaO	2.5 – 3.7%
K ₂ O	2.3 – 3.5%
MgO	0.9 – 1.2%
Fe ₂ O ₃	0.8 – 1.9%
Na ₂ O	0.3 – 0.65%
TiO ₂	0.0.15
MnO ₂	0.0.08%
As	< 8ppm
Cd	< 0.6 ppm
Pb	< 60 ppm
Hg	0.1 ppm

PACK SIZE: 25kg

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