NEOVA

INNOVATION FROM FINLAND

NEOTERRA & NEOGT

Finnish solutions for healthier turf and soil



- Improves water retention
- Enhances biological activity
- Promotes root development
- Increases soil organic carbon

NEOTERRA – WATER MANAGEMENT AND SOIL IMPROVEMENT FOR GOLF COURSES

NeoTerra is a range of soil performance solutions made from Finnish RPP*-certified peat, designed to improve golf course rootzones.

NeoTerra Aquacore is designed to improve water retention and moisture management. **NeoTerra Soilcore** adds organic matter and humic substances, improves soil structure and supports root development.

Available as pellets and granules for rootzone mixes, renovation of greens and tees, and divot repair.

*RPP = Responsibly Produced Peat



NeoTerra products are available as granules (left) and pellets (right).

Improved water retention while maintaining high permeability

European Turfgrass Laboratories (ETL) in Scotland evaluated the effects of NeoTerra Aquacore on the physical properties of a sand-based substrate.

Adding just 2.5% (v/v) improved water retention and increased organic matter, while permeability remained high and air-filled porosity was virtually unchanged.

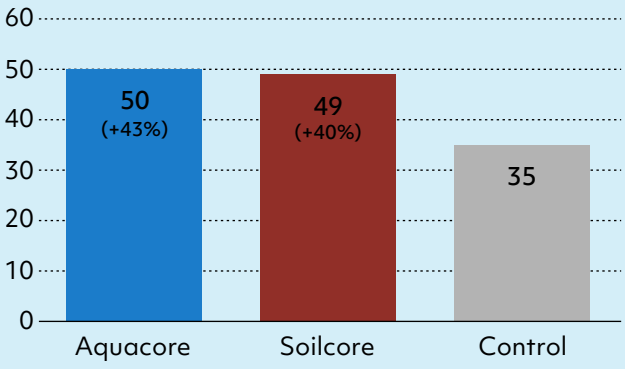
Water retention	Hydraulic conductivity	Air-filled porosity	Organic matter	pH
13.2% **(+14%)** Control 11.6%	**350 mm/h** Control 367 mm/h	**17.1%** Control 17.2%	**0.1% → 1.0%**	**6.7 → 5.8**

ETL laboratory trial: 2.5% (v/v) NeoTerra Aquacore 3 mm granules in a sand-based substrate. Water retention measured at 30 cm tension.

Field trial: improved water retention and stronger roots

In a 2026 field trial at Messilä Golf, NeoTerra Aquacore and Soilcore were incorporated into the top 20 cm of a sand-based rootzone at a 1% rate.

After four months, both products approximately doubled rootzone organic matter compared with the control and substantially improved water retention. Aquacore gave the best water-retention results, while Soilcore produced the strongest root growth and greatest root mass.



- Messilä Golf 2026
- NeoTerra Aquacore and Soilcore as 3 mm granules
- 1% incorporated into a 20 cm layer (bulk mixing)
- Soil samples collected four months after application

NEOGT - BIOACTIVE PEAT EXTRACT FOR GOLF TURF CARE

NeoGT is a concentrated liquid extract made from Finnish RPP-certified peat. It supports root development and soil biological activity in golf turf.

NeoGT is rich in humic and fulvic acids and other bioactive compounds, including organic acids, amino acids, peptides and phenolic compounds.



As a liquid product, NeoGT is ideal for regular treatment of greens and fairways during the growing season, complementing NeoTerra soil improvers.

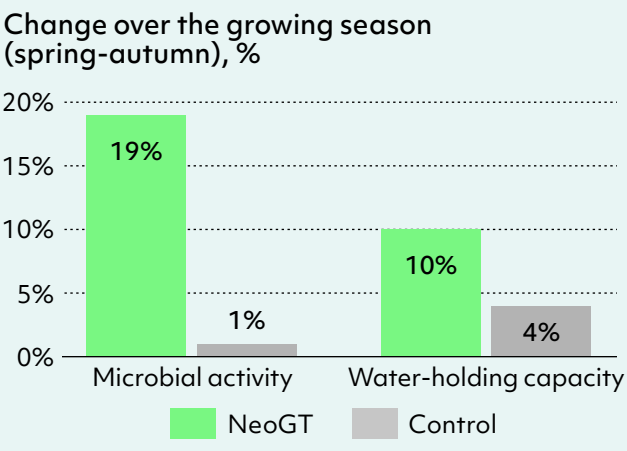


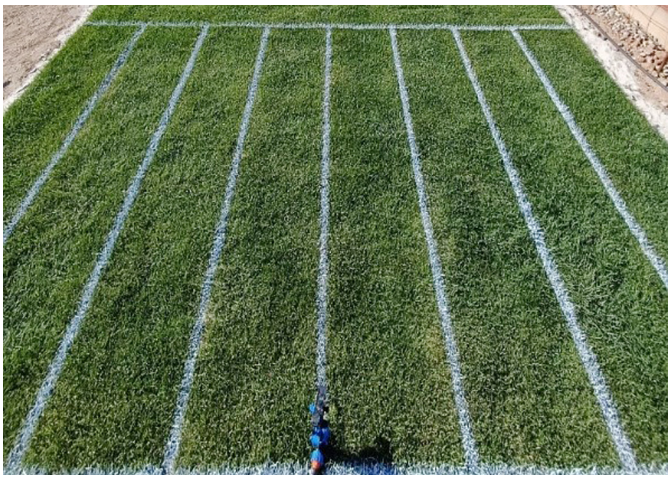
Root systems of NeoGT-treated turf and untreated control.

Supports microbial activity and water retention

In 2024, NeoGT was evaluated on Finnish golf courses in collaboration with Golf Course Consulting Jannenestori Oy. NeoGT was applied at 3 L/ha every three weeks, with soil sampled in spring and autumn.

Over the growing season, microbial activity increased by an average of 19% in NeoGT-treated areas, compared with 1% in the control. Water-holding capacity increased by 10% and 4%, respectively. The results support the use of NeoGT to enhance soil biological activity and moisture management throughout the growing season.

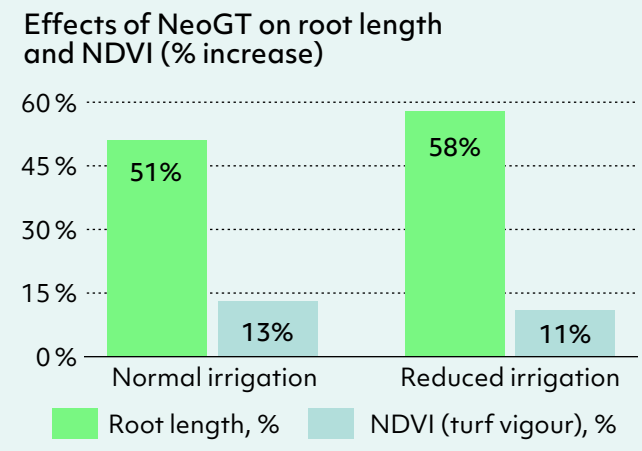




Stronger root growth under reduced irrigation

The effects of NeoGT on turfgrass drought tolerance were evaluated at the NEVAL research institute in Spain in 2024. Eight applications of 4 L/ha were made at two-week intervals.

NeoGT increased root length by 51% under normal irrigation and by 58% with 30% less irrigation. NDVI, an indicator of turf vigour, also improved by 13% and 11%, respectively, compared with the control. Differences from the control were statistically significant ($p < 0.05$).



NEOTERRA & NEOGT

APPLICATION GUIDELINES FOR GOLF COURSES

NEOTERRA – for rootzone improvement

Application	Rate
Construction and renovation	2,500–5,000 kg/ha, evenly broadcast or 1–3% (v/v) incorporated into the rootzone
Maintenance	500–1,000 kg/ha/year
Topdressing and divot mixes	2–5% (v/v) mixed with sand

Application

Where possible, mix **NeoTerra** products evenly into the rootzone to target the root area. Use 1–3 mm granules or 6 mm pellets in rootzone mixes, depending on the application. For topdressing and divot mixes, 1 mm granules are recommended.

NeoTerra Aquacore is particularly suited to moisture management, while **NeoTerra Soilcore** adds organic matter and supports rootzone health.

NEOGT – for in-season turf care

Application	Rate	Frequency
Greens, fairways and turf areas	3–4 L/ha	Every 2–4 weeks

Application:

Mix 3–4 L of NeoGT with 600–900 L of water per hectare. Apply by spraying or through irrigation systems.

NeoGT is compatible with many fertilisers and other golf course products. Do not mix with iron sulphate ($FeSO_4$). Avoid mixing with MAP or MKP fertilisers due to the risk of precipitation. Always perform a jar test before preparing a new tank mix.

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