

**DEMAND THE BEST FOR
YOUR SPORTS TURF!**

Marathon ALGAE GOLF

RANGE OF SEQUENTIAL RELEASE ORGANO MINERAL
MICROGRANULAR FERTILISERS

- Patented XSER® technology
- Enriched with SEADRY® marine algae extracts
- Sequential release of nutrients
- Stimulation of the soil microflora
- Breakdown of residual organic matter



LOOK AFTER YOUR TURF AND TAKE CARE OF THE ENVIRONMENT AT THE SAME TIME: IT'S VITAL!



Managing golf courses and sports pitches is becoming more complex!

Indeed, apart from technical and economic challenges, climatic and environmental issues now need to be taken into account as part of ensuring that players are happy with the quality of turfed areas:

- Building up the resilience of sports turf against stresses, including those associated with more and more marked climatic variations
- Limiting the environmental impact of the inputs used
- Ensuring the health and safety of maintenance personnel

Within this context, the greenkeeper's primary aim is to effectively manage the soil/plant system:

- By ensuring optimum functioning of the soil microflora to guarantee root development and constant renewal
- By supplying proper and effective nutrition to guarantee regular absorption of the nutrients essential for turf growth.
- By building up the turf's resistance to the various forms of stress (biotic and abiotic).

In response to all these challenges, Olmix is proposing some innovative technologies, based on the circular economy, as well as a global approach to plant management. The solutions developed with this in mind mean that the quality and continuity of sports turf can be improved, while respecting the environment and user health.

Marathon ALGAE GOLF

THE BENCHMARK FOR SPORTS TURF!

Benefiting from patented XSER® technology, and enriched with SEADRY® marine algae extracts, the Marathon ALGAE GOLF range has been specially designed to meet the needs of the most demanding sports turf:

► **Marathon ALGAE GOLF** gradually releases the nutrients needed for the grass to grow while stimulating the soil's bacterial activity thus avoiding the accumulation of undecomposed organic matters.

► **Marathon ALGAE GOLF** contains SEADRY® algae extracts rich in marine sulphated polysaccharides beneficial for the satisfactory functioning of the soil microflora.



Sequential release
of nutrients

Up to
12
weeks after
application

Stimulation of the
soil microflora

Thanks to the
SEADRY®
algae extracts
and low **C/N**

Correct nutrition
for requirements

Thanks to the
the various
NPK + oligo
available



XSER® TECHNOLOGY

AT THE HEART OF THE MARATHON ALGAE GOLF RANGE



What is XSER® technology?

XSER® is a contraction of « complex for SEquential Release »
 Patented XSER® technology combines mineral fertiliser forms with variable kinetics of action with an organic substrate, aided by a plant polymer.
 The complex created in this way prevents the fertiliser from leaching and ensures that the plant is provided with a successive sequence of nutritional elements.

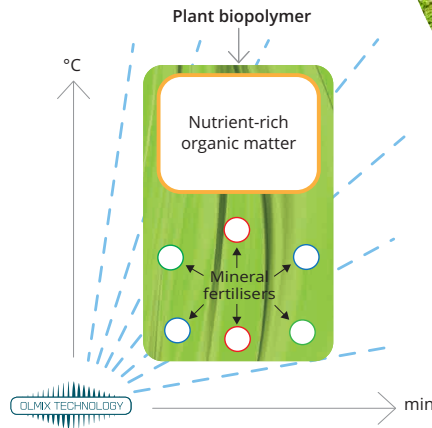
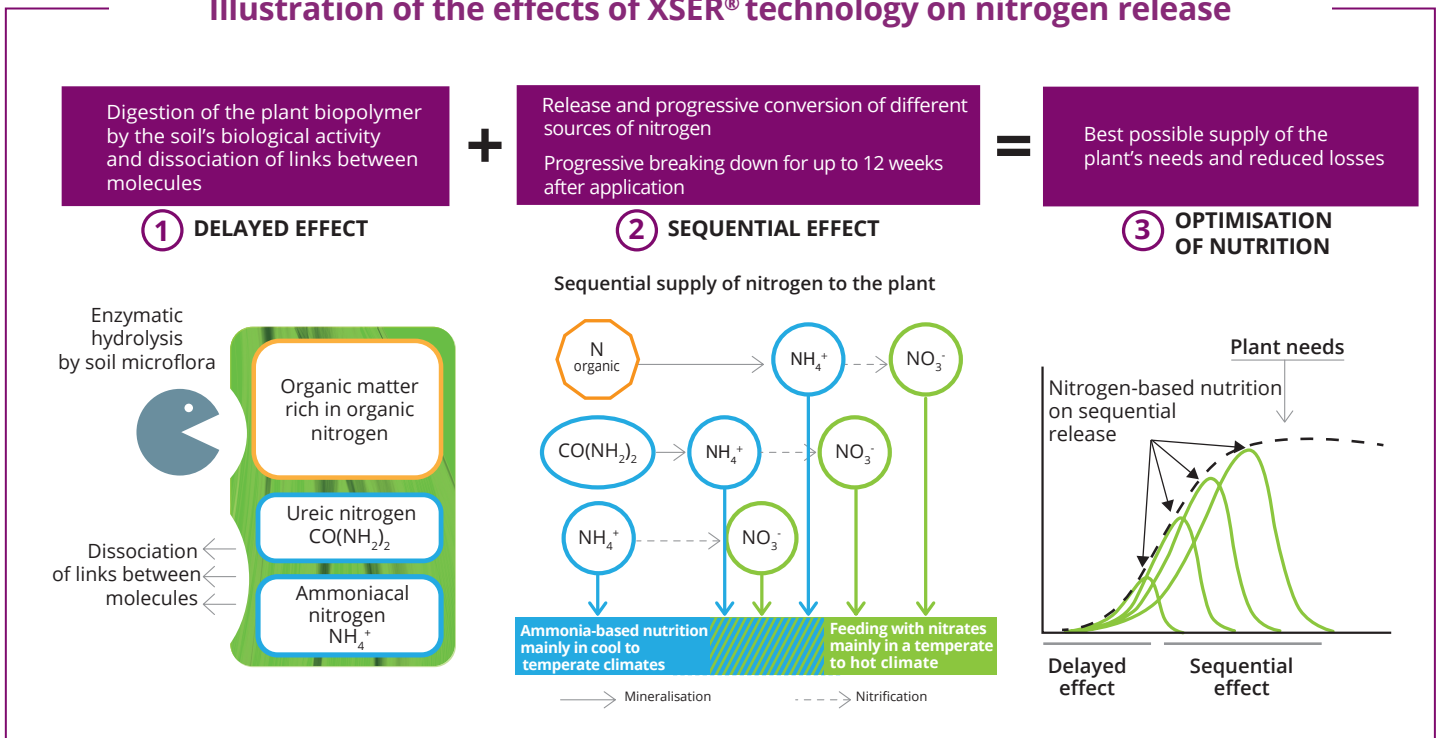


Illustration of the effects of XSER® technology on nitrogen release



What are the benefits of XSER® technology?



- ▶ Sequential release of all the fertilising elements
- ▶ Reduction of fertiliser losses through leaching
- ▶ Better valorisation of fertilising units
- ▶ Plant-based complexing agent respectful of the soil microflora and the environment
- ▶ Stimulation of biological activity by easily mineralizable organic input
- ▶ Optimisation of nitrogen-based nutrition in an ammoniacal form
- ▶ encouraging cell division rather than elongation

SEADRY® - MARINE ALGAE EXTRACTS

Algae contain ingredients with stimulating properties for plants and the microbial flora in the soil. In-depth knowledge of marine algae and know-how about their conversion processes explains Olmix's acknowledged expertise in the selection of algo-sourced ingredients with unique bioactive properties, very beneficial for terrestrial plants.



This expertise gave rise to SEADRY® (SEAwEED DRY extracts):



Dehydrated algae extracts, rich in nutrients which can be metabolised by the soil microflora.

- ▶ Stimulation of the soil's biological activity
- ▶ Supply of nutrients for the rhizosphere

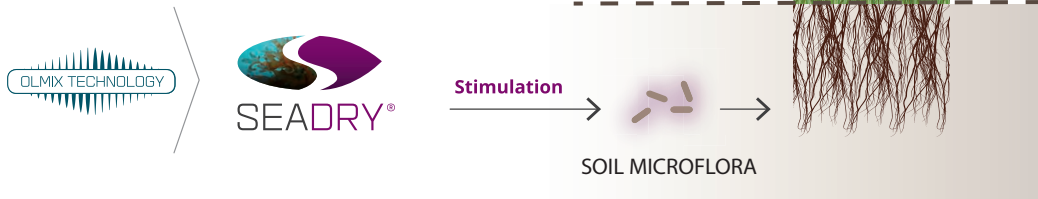
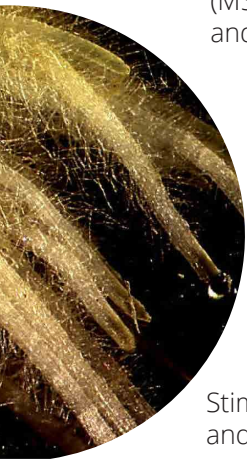


Marine sulphated polysaccharides

(MSP®) are complex natural macromolecules, synthesized by the algae. They have original and specific biological properties, valuable for the development of the soil microflora.

Why are SEADRY® algae extracts advantageous for turf growth?

Due to their unique ingredients, particularly marine sulphated polysaccharides (MSP®), SEADRY® algae extracts encourage the development of the soil microflora and the root system.



Stimulating the microbial life of the soil increases the availability of nutrient elements for the plant, and encourages the development of the root system thus making the turf more resistant to environmental stresses (trampling, hydric stress, etc.).

Marathon ALGAE GOLF

THE WINNING FORMULA FOR TOP-CLASS NUTRITION!

▶ Thanks to XSER® technology and SEADRY® algae extracts, the Marathon ALGAE GOLF range offers technical, economic and environmental advantages:

- ✓ Regular nutrition for the turf without any growth surges
- ✓ Optimisation of ammonia-based nutrition to stimulate tillering rather than elongation
- ✓ Strengthening of turf resilience and density
- ✓ Stimulation of the soil microflora
- ✓ Better breakdown of residual organic matter
- ✓ Reduction of losses of fertiliser into the environment



The solution for environmentally-friendly healthy, resistant turf!

Marathon ALGAE **GOLF**



CHARACTERISTICS & USE

The Marathon ALGAE **GOLF** range has several balances, all low in chlorine.

Formulas	N total	N NH ₄	N urea	N org.	P ₂ O ₅	K ₂ O	CaO	MgO	SO ₃	Fe	Mn	Organic Matter	C/N of the OM	Density
7-13-9	7%	3%	2%	2%	13%	9%	0,9%	3,2%	10,7%	0,5%	0,3%	36% (a)(b)	6,3	0,65
16-4-8	16%	3,5%	11%	1,5%	4%	8%	0,7%	3,6%	15,3%	0,5%	0	27% (a)(b)	5	0,65
10-0-15	10%	2%	6,4%	1,6%	0%	15%	0,6%	3,1%	19,5%	0,5%	0	33%(a)(b)	5,7	0,60
5-0-27	5%	1,4%	2,6%	1%	0%	27%	0,3%	4,2%	31,7%	0,5%	0	16% (b)	3,7	0,72
5-3-4	5%	1,7%	1%	2,3%	3%	4%	6,5%	5,6%	11,9%	0,5%	0	45% (a)(b)(c)	8	0,59

(a) Organic matter from poultry farms (b) Oilseed meal (c) Fruit pulp

The organic matter is dehydrated, sanitized without being composted, then mixed with mineral matter as carefully as possible in order to guarantee optimum effectiveness and faultless granulometry. Each formula is enriched with 3% SEADRY®, nutrient-rich dehydrated marine algae.

Regulatory class

Organo mineral fertiliser

Granulometry

90% of granules between 0.7 and 2mm

Packaging

- 20 kg bag (1000 kg pallet)
- 500 kg Big bag available to order

Utilisation

The Marathon ALGAE **GOLF** range is recommended for maintenance fertilisation on greens, tees and also sports pitches.



References	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Dosage	Applications
7-13-9 + 3,2 MgO + 0,5 Fe + 0,3 Mn													20 - 30 g/m ²	In addition to sowing
16-4-8 + 3,6 MgO + 0,5 Fe													20 - 30 g/m ²	Every 4 - 6 weeks
10-0-15 + 3,1 MgO + 0,5 Fe													20 - 30 g/m ²	Every 4 - 6 weeks
5-0-27 + 4,2 MgO + 0,5 Fe													20 - 30 g/m ²	Every 4 - 6 weeks
5-3-4 + 6,5 CaO + 5,6 MgO + 0,5 Fe													30 - 40 g/m ²	After each mechanical operation



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