

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

# Marathon ALGAE

## SPORT 16-4-8

SEQUENTIAL RELEASE ORGANO MINERAL  
GRANULAR FERTILISER FOR LONG TERM BENEFITS

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



Distributor in UK

**COLLIER®**  
**TURF CARE**

for a better life  
**olmix** Plant Care

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

Managing green spaces 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 manager'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 correct 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 SPORT

### THE BENCHMARK FOR SPORTS TURF AND GREEN SPACES!

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

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



XSER®



SEADRY®

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



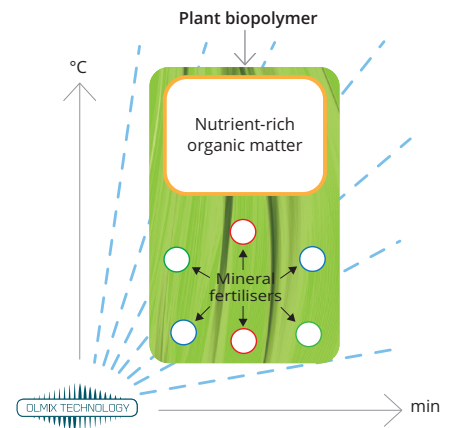


# XSER® TECHNOLOGY

AT THE HEART OF THE **MARATHON ALGAE SPORT**

## What is XSER® technology?

**XSER®** is a contraction of « **compleX** for **SE**quential **Re**lease ». 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

Digestion of the plant biopolymer by the soil's biological activity and dissociation of links between molecules

→ **DELAYED EFFECT**

+

Release and progressive conversion of different sources of nitrogen

Progressive breaking down for up to 12 weeks after application

→ **SEQUENTIAL EFFECT**

=

Supply as close as possible to the plant's needs and limited losses

→ **NUTRITION OPTIMISATION**

Enzymatic hydrolysis by soil microflora



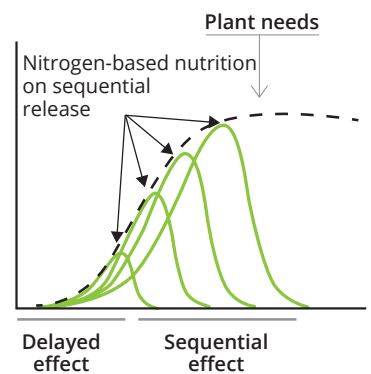
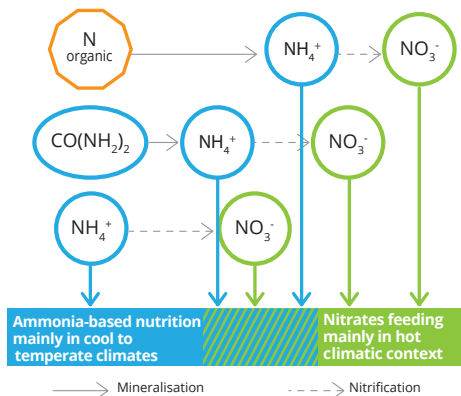
Organic matter rich in organic nitrogen

Ureic nitrogen  $\text{CO}(\text{NH}_2)_2$

Ammoniacal nitrogen  $\text{NH}_4^+$

Dissociation of links between molecules

Sequential supply of nitrogen to the plant



## 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):

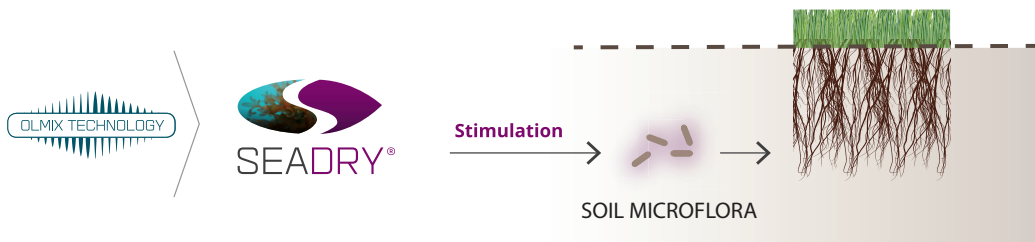


Dehydrated algae extracts, rich in nutrients which can be metabolised by the soil microflora.

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

### 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.).

**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.



# Marathon ALGAE SPORT

THE WINNING FORMULA FOR TOP-CLASS NUTRITION!

▶ Thanks to XSER® technology and SEADRY® algae extracts, **Marathon ALGAE SPORT offers technical, economic and environmental advantages:**

- ✓ Stimulation of the soil microflora
- ✓ Better biological balance in the soil to stimulate root development
- ✓ Reduction of organic matter accumulation
- ✓ Better resistance to abiotic stress
- ✓ Optimisation of ammonia-based nutrition to stimulate tillering rather than elongation
- ✓ Strengthening of turf resilience and density

The solution for environmentally-friendly healthy, resistant turf!



# Marathon ALGAE SPORT 16-4-8

## CHARACTERISTICS & USE

**Marathon ALGAE SPORT 16-4-8** combines mineral fertilisers with organic matters, carefully selected, dehydrated, sanitized without being composted. This formula is enriched with 3% SEADRY®, nutrient-rich dehydrated marine algae.

Formula	N total	N NH <sub>4</sub>	N urea	N org.	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	MgO	SO <sub>3</sub>	Fe	Organic matter	C/N of the OM	Density
16-4-8	16%	2,5%	12%	1,5%	4%	8%	2%	12,3%	0,3%	28%	5,2	0,76

**Marathon ALGAE SPORT 16-4-8** is low in chlorine.

### Regulatory class

Organo mineral fertiliser

### Particle size

90% of granules between 2 and 4mm

### Packaging

- 20 kg bag (1000 kg pallet)



### Use

**Marathon ALGAE SPORT 16-4-8** is recommended for maintenance fertilisation on green fields (Football, Rugby, Cricket outfields), fairways and tees.

References	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Dosage	Applications
16-4-8 + 2,7 MgO + 0,5 Fe													200 - 300 kg/ha	2 - 3 months

Distributor in the UK



To order:

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Website: [www.collier-turf-care.co.uk](http://www.collier-turf-care.co.uk)

Contact your area technical representative



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