

# Turf fertilizers



  
growing green ideas

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# *Green Ravenna*

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## The Company

**Green Ravenna** was established in 1999, specializing its activities in Turf & Lawn care. Few years later, the Company enhanced its product portfolio, including products for Professional Farmers as well as Non-Professional Users.

**Green Ravenna** is part of an industrial group, entirely dedicated to the agribusiness, leading-edge in production and industrial research of Plant Protection Products aimed to introduce on the market new sustainable products for the crops.

**Green Ravenna** headquarters are located in the city centre of Ravenna, while its operative offices, including Administration, Logistic, Sales & Marketing and Research, are in Cotignola (Ravenna). The linear structure strenghten more and more the collaboration between different business areas.

**Green Ravenna** is active all around Italy, with more than 40 sale agents and 3 line managers, working day by day to match accurately and professionally our customers technical and commercial needs.

Beyond Italy, **Green Ravenna** distributes its products all over Europe, through a strong network of selected partners.



## The Products

**Green Ravenna** markets a wide range of products both for the nutrition and protection of crops, plants and turf, covering the needs for both profesional and amateur users.

Before launching the products on the market, Green Ravenna Technicians test them in the fields to assess efficacy, efficiency and the different application techniques, in order to deliver the best possible products to our customers.

**Green Ravenna** respects the Nature and the Environment, developing environmental-friendly new products, suitable for both Conventional and Organic farming, taking care of users and people in the area.

## Research & Development

**Green Ravenna** invests every resources for R&D. Every employee in the Company is dedicated to the study of farmers and market needs, through field trials and technical advices, in order to collect as much information as possible to develop new sustainable solutions.

**Green Ravenna** organization includes a Technical area that, in addition to the development of new products, supports the application through technical teaching to farmers, trying to obtain the best performances from all products.

Further to the internal development, **Green Ravenna** collaborates with internationally-recognized Universities, Research Centers and Companies to provide a wider portfolio of environmental-friendly solutions to our farmers.



# Turf fertilizers

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# Slow-release fertilizers

## **Why are slow-released fertilizers useful?**

Because they make nutrients available for plants gradually over time, tuning plants needs and nutrients uptake.

Fertilizers can be considered as innovative, and rewarding for the farmers, when their performance enhances the lawn, reduces fertilization costs and has very low impact on the Environment.

Green Ravenna designed its portfolio of granular fertilizers basing on the above-mentioned fundamental points: Nitrogen fertilizers, able to release gradually the nutrient over time, as Nitrogen is the most important element for turf look and performance, as well as the most probable subject to leaching in soil.

Green Ravenna *Slow-release granular fertilizers* are manufactured with a specific technology that enables to cover nutrients with polymeric resins, the only ones able to grant specific release timings.

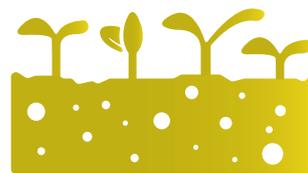
Green Ravenna fertilizers are based on the **MCT - Multicotech technology**: high purity nutrients are covered by a special biodegradable polymeric membrane based on organic resins that will completely degrade once Nitrogen release is over. This membrane regulates nutrients release only according to the average soil temperature, and it is not influenced by soil type, pH or the microbial community. The water in the soil vehiculates nutrients toward roots, without any negative effects on the release speed: it allows to have the perfect synchrony between plants needs and nutrients release.

At low temperatures ( $< 5^{\circ}\text{C}$ ), nutrients release is approximately zero, even with high soil humidity, avoiding useless nutrients waste in the Environment.

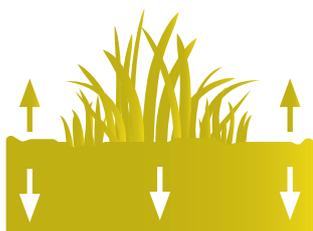
## Green Ravenna fertilizers advantages



**Balanced turf growth thanks to nutrients release in function of plants needs.**



**Reduction in dangerous salt excess.**



**Reduction in loss due to volatilization and leaching.**



**Reduction in fertilizers rates and consequent cost reduction for farmers.**

# Start 15.20.10

## EC FERTILIZER - NPK (Mg-S) 15-20-10 (2-13) fertilizer



**Start 15.20.10** is a granular fertilizer, targeted for applications during new lawn areas establishment, either newly seeded or sod.

Phosphorus high content fosters roots growth and the development of new plants in case of seedling, while stimulates roots activities restart, when turf is laid down.

Nitrogen is rapidly available to be assimilated by plants as soon as the seeds germinate, and their energies are over. A small portion of Nitrogen is *Slow-released*, in order to support turf development until next fertilizations, which usually take place within 30-45 days since seedling, depending on weather conditions.

Furthermore, **Start 15.20.10** can be applied on turf after dormant periods, thermic or foot stepping stresses, on turf to seek for a revitalizing effect, favoring plants and roots growth.

Its particle size and physical-chemical characteristics assure a rapid solubilization and nutrients availability, even on previously established turf.



### COMPOSITION

<b>Total Nitrogen (N)</b>	15%
- Nitric Nitrogen (N)	2,7%
- Ammoniacal Nitrogen (N)	8,1%
- Ureic Nitrogen (N)	4,2%
<b>Phosphorus pentoxide (P<sub>2</sub>O<sub>5</sub>) soluble in water and in neutral ammonium citrate</b>	20%
- Phosphorus pentoxide (P <sub>2</sub> O <sub>5</sub> ) soluble in water	18,5%
<b>Potassium oxide (K<sub>2</sub>O) soluble in water</b>	10%
<b>Total Magnesium oxide (MgO)</b>	2%
- Magnesium Oxide (MgO) soluble in water	1,8%
<b>Sulfur trioxide (SO<sub>3</sub>) soluble in water</b>	13%



### PACKAGE

<b>Bag</b>	10 kg
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### APPLICATION RATES

CROPS	RATE
Newly sown turf	35-50 g/m <sup>2</sup>
Sod	25-35 g/m <sup>2</sup>



### SPECIFICATIONS

<b>Granular</b>	2-4 mm
<b>Chlorine content (w/w)</b>	<2%

# Multi 15.6.15

**NPK (Mg-S) 15-6-15 (3-21) fertilizer**



**Multi 15.6.15** is a granular universal fertilizer, suitable for applications on *turf*, *gardens* and *orchards* in different vegetative stages, hence in different seasons of the year.

The balanced uptake of all the nutrients is suitable for plants needs along all the growth stages.

*Nitrogen* is fundamental for proteins synthesis as well as for branching and turf density thickening.

30% of the total Nitrogen is *Slow-released* to grant a scheduled uptake in 2-3 months, according to turf varieties and weather conditions.

Its particle size and physical-chemical characteristics assure a rapid solubilization and nutrients availability, even in case of previously established turf.



## COMPOSITION

<b>Total Nitrogen (N)</b>	15%
- <b>Nitric Nitrogen (N)</b>	4,1%
- <b>Ammoniacal Nitrogen (N)</b>	6,5%
- <b>Ureic Nitrogen (N)</b>	4,4%
<b>Phosphorus pentoxide (P<sub>2</sub>O<sub>5</sub>) soluble in water and in neutral ammonium citrate</b>	6%
- <b>Phosphorus pentoxide (P<sub>2</sub>O<sub>5</sub>) soluble in water</b>	5%
<b>Potassium oxide (K<sub>2</sub>O) soluble in water</b>	15%
<b>Total Magnesium oxide (MgO)</b>	3%
- <b>Magnesium Oxide (MgO) soluble in water</b>	2,5%
<b>Sulfur trioxide (SO<sub>3</sub>) soluble in water</b>	21%



## PACKAGE

<b>Bag</b>	10 kg
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## APPLICATION RATES

CROPS	RATE
<b>Turf</b>	25-35 g/m <sup>2</sup>
<b>Flowerbeds</b>	35-45 g/m <sup>2</sup>
<b>Orchards (under trees crown)</b>	120-150 g/plant
<b>Newly planted trees (in the hole)</b>	150-200 g/plant



## SPECIFICATIONS

<b>Granular</b>	2-4 mm
<b>Chlorine content (w/w)</b>	<2%
<b>Cover technology</b>	MCT
<b>% Covered (w/w)</b>	11%

# Sprint 25.0.10

**NK (Mg-S) 25-10 (2-18) fertilizer**



**Sprint 25.0.10** is a granular fertilizer, containing high amount of *Nitrogen* (around 45% is *Slow-released*), aimed to make the *lawn greener*, designed to face *turf intensive growth periods*, when the primary element for proteins formation is needed in abundance.

Furthermore, thanks to the *Slow-release Nitrogen*, **Sprint 25.0.10** is fit for dormant season, when usually *Nitrogen fertilizations* should be avoided, in order not to stimulate plants' growth, but anyway needed to nourish the turf.

Applied before winter, **Sprint 25.0.10** ensures the right nutrients uptake, without lacking of any, for a quick restart in spring.

The granular formulation results in an easy application.

**Sprint 25.0.10** particle size and physical-chemical characteristics assure a rapid solubilization and nutrients availability, without jeopardizing the standard operations that usually take place just some hours after the application (in order to facilitate solubilization, irrigate just after the application).



## COMPOSITION

Total Nitrogen (N)	25%
- Nitric Nitrogen (N)	2,9%
- Ammoniacal Nitrogen (N)	6,0%
- Ureic Nitrogen (N)	16,1%
Potassium oxide (K <sub>2</sub> O) soluble in water	10%
Total Magnesium oxide (MgO)	2%
- Magnesium oxide (MgO) soluble in water	1,5%
Sulfur trioxide (SO <sub>3</sub> ) soluble in water	18%



## APPLICATION RATES

CROPS	RATE
Turf	25-35 g/m <sup>2</sup>



## PACKAGE

Bag	10 kg
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## SPECIFICATIONS

Granular	2-4 mm
Chlorine content (w/w)	<2%
Cover technology	MCT
% Covered (w/w)	23%

# Antistress 15.0.25

**NK (Mg-S) 15-25 (3-16) fertilizer**

**Antistress 15.0.25** is a granular fertilizer, designed for applications when turf stresses conditions show up.

The *Potassium* high content is needed to thicken cellular walls and strengthen mechanical tissues, thus ensuring better resistance to stresses and water absorption.

15% *Slow-release Nitrogen*, combined with *Potassium*, aid turf fast recovery.

The granular formulation results in an easy application.

**Antistress 15.0.25** particle size and physical-chemical characteristics assure a rapid solubilization and nutrients availability, without jeopardizing the standard operations that usually take place just some hours after the application (in order to facilitate solubilization, irrigate just after the application).



## COMPOSITION

Total Nitrogen (N)	15%
- Nitric Nitrogen (N)	7%
- Ammoniacal Nitrogen (N)	4,5%
- Ureic Nitrogen (N)	3,5%
Potassium oxide (K <sub>2</sub> O) soluble in water	25%
Total Magnesium oxide (MgO)	3%
- Magnesium oxide (MgO) soluble in water	2,5%
Sulfur trioxide (SO <sub>3</sub> ) soluble in water	16%



## APPLICATION RATES

CROPS	RATE
Turf	25-35 g/m <sup>2</sup>
Flowerbeds	25-35 g/m <sup>2</sup>



## PACKAGE

Bag	10 kg
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## SPECIFICATIONS

Granular	2-4 mm
Chlorine content (w/w)	<2%
Cover technology	MCT
% Covered (w/w)	9%

# Iron green

**EC FERTILIZER - Iron (Fe) salt (sulphate)**

**Iron green** is conceived to bring easily absorbable *Iron* to the turf.

**Iron green** acidifies soil and enhances its structures, making *Iron* easy absorbable.

Assimilable *Iron* prevents and treats *ferric chlorosis*, making turf greener again.

Furthermore, **Iron green** prevents and cures any *musk* formation, thanks to its ability to vary soil pH.

The granular formulation results in an easy application.

**Iron Green** particle size and its physical-chemical characteristics assure a rapid solubilization and nutrients availability, without jeopardizing the standard operations that usually take place just some hours after the application (in order to facilitate solubilization, irrigate just after the application).



**WARNING**  
**H-PHRASES:**  
H315 - H319

Take care when the product is applied in areas sensible to staining.



## COMPOSITION

<b>Iron (Fe) soluble in water</b>	12%
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## APPLICATION RATES

CROPS	RATE
<b>Ferric chlorosis</b> (Preventive effect)	20 g/m <sup>2</sup>
<b>Ferric chlorosis</b> (Curative effect)	40 g/m <sup>2</sup>
<b>Plants &amp; bushes</b>	60-100 g/m <sup>2</sup>
<b>Orchards</b> (under trees crown)	100 g/m <sup>2</sup>



## PACKAGE

<b>Bag</b>	10 kg
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## SPECIFICATIONS

<b>Granular</b>	2-5 mm
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# Turf fertilizers



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