



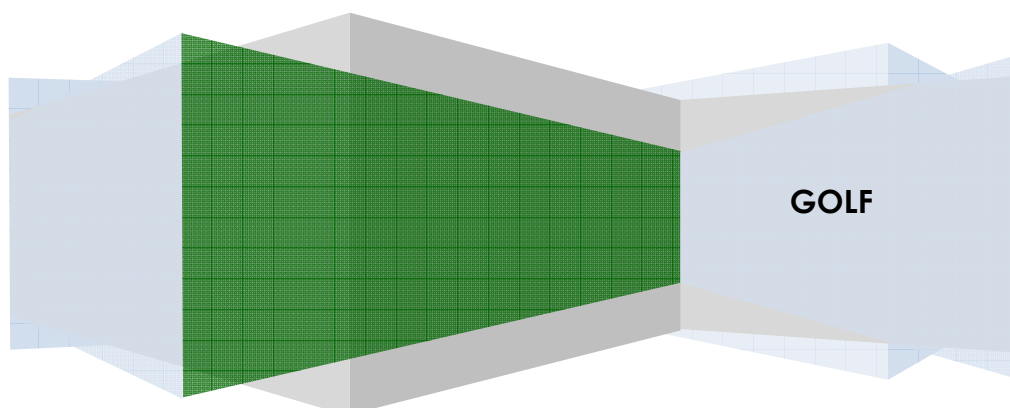
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Linea di Prodotti ECOENZIMI®

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Trattamenti Enzimatici per l'Agricoltura, la Zootecnia, la Sanificazione



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**Produzione**

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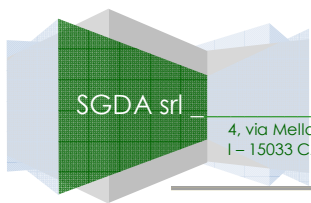
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The Ministry of University and Research has entered **Ecoenzimi Srl** prot. 43/164 and No. 59541WMW registration in the register of "**National Research Register**".

### The care of the grass on the sports fields and golf courses

The problem of maintaining grass golf courses, not only the maintenance and care for a good turf, but that the products used are natural and zero environmental impact. In addition to mowing and cutting, you must:

2

1. used to fast a seed germination and growth (tan suit);
2. feed, fertilize the plants, because they are resistant to stress from foot traffic and climatic conditions;
3. protect the grass from pests (insects, fungi, weeds, etc.).

Feeding fertilize and protect against parasites are operations that are performed frequently with synthetic chemicals.

The same operations can be performed with natural products: the enzyme mixture **S.G.D.A. S.r.l. - ECOENZIMI®**, consists of consists of natural products that can feed the soil, fertilize mixtures of plants (grasses and legumes), increase resistance to pathogens and to water stress and enhance the development of roots and leaves.

To create the grass and the grass before planting seed, you should tan mixture of seeds with the product **CONCIAZYM**:

The product should be used as such as powder, made contact with the seeds, in doses of 300g per kg of seed.

To keep lawns we recommend using the product **IAGROENZYM-G** in the amount of 2 kg / ha, sprayed with sprayers at least four times a year, or according to different needs, so as to cover the entire surface evenly.

Proposed Calendar for the treatments:

1st Treatment	March-April
2nd Treatment	May-June
3rd Treatment	July - August
4th Treatment	September - October

In winter or during coring and sanding is essential to include 1000g / m<sup>3</sup> product **IAGROENZYM-G** in sand or soil to improve soil characteristics and facilitate a better development of plants.

Thanks to its active is able to carry a nutritional action, protective and preventive maintenance of the grass in a natural way.

The enzyme mixture **IAGROENZYM-G** is safe and environmentally friendly, not harmful to humans and animals. It 's a biostimulating enzyme of plant metabolism.

3

For information and rules for use of personal contact **S.G.D.A. S.r.l. - ECOENZIMI ®**

### **EXPERIMENTAL TESTS OF SEEDS AND CONCERTS foliar treatments at the Golf Club La Serra "Valenza (Alessandria) 2009**



First treatment with Fairway Mixture **S.G.D.A. S.r.l. - ECOENZIMI ®**.

Even in golf increases the idea that sport and the pleasure of being in direct contact with nature require greater attention to the negative impacts arising from the management of turfgrass.

Environmental protection has become in recent years, an integral part of European policy and legislation, and every type of recreational activity is that production involves the positive and negative effects on the environment and natural resources.

Golf, of all the sports and recreational activities, is the one that engages and manages the largest green areas, recent surveys have estimated the following consumption of pesticides (kg per hectare per year):

- 1.) 44 fertilizer nitrogen, phosphorus 9 and 35 of potassium;
- 2.) herbicides 1.70 kg / ha;
- 3.) fungicides 4.4 kg / ha;
- 4.) insecticides 1.80 kg / ha.

4

**These products are classified according to European standards**, which depending on the class of toxicity, ranging from unclassified to irritating or harmful, so for most products that are considered toxic to human health and the environment.

The company **S.G.D.A. S.r.l. - EcoEnzymes®** any year manufactures and markets products for the treatment of grass golf courses, sports and the conventional and organic farming, using only natural ingredients.

The use of enzyme mixture **IAGROENZYM -G** of **S.G.D.A. S.r.l. - ECOENZIMI®** does not respond solely to natural needs - but environmental stems from the belief that you can produce and maintain a grassy field without the use of chemicals but only natural products.

The main features of the enzyme mixture **IAGROENZYM-G** are:

has dual-action catalyst fact also act on cells of the root system by increasing resistance to water stress.

Play action against pest insects, aphids and cryptogams;

- distributed in the soil improves absorption of nutrients for plants and start the process of decontamination and remediation;
- hinder the development of pathogenic fungi and insect pests oviposition;
- exert action on growth and metabolism plant
- affect the activity of many enzymes and photosynthetic processes.

#### **Mechanisms of action of the mixture on S.G.D.A. S.r.l. - ECOENZIMI®:**

- tanning
- defended by cryptogams
- plant nutrition.

**TANNING:** the timing of germination depends on the action of specific hormones (abscisic acid, gibberellins and cytokinins) which in turn supervise and stimulate the germination of seeds with the activation of specific enzymes involved in the mobilization of seed nutrient reserves. Many other enzymes involved in the process of hydration of the seed and in the 'action of softening of the wall and the integument of the seed coating, favoring a faster germination.

The tan suit with the enzyme mixture **CONCIAZYM** of **S.G.D.A. S.r.l. - ECOENZIMI®** promotes faster growth, homogeneous, higher density and increases the resistance of the plant to attack by fungal and bacterial pathogens in the soil.

Rapid growth and dense at the same time prevent the spread of weeds.

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**DEFENCE AND OTHER PARASITES FROM CRYPTOGRAMS:** Another important action of the enzyme mixture of **S.G.D.A. S.r.l. - ECOENZIMI®** is to increase the natural resistance of plants to attack by pathogens, through the production of secondary metabolites often found in the form of inactive precursors which are converted the active form (saponins) from plant enzymes.

**PLANT NUTRITION:** a feature of the enzyme mixture **S.G.D.A. S.r.l. - ECOENZIMI®** is that it contains rich bio-stimulating plant nutrients, amino acids, vitamins, carbohydrates and microorganisms that play a foliar fertilizer.

5

Both seed dressing of fertilizer foliar and soil and encourage a strong root system, foam boxes with thick and numerous radicals.

The action of the enzyme mixture of **S.G.D.A. S.r.l. - ECOENZIMI®** as well as giving the roots a better resistance to water scarcity increases in the stem tissue elasticity and the stress of walking.

a)



b)



Golf Club **LA SERRA** (side a, b). (pictures taken 03.23.2009).

Putting green coverage of *Agrostis stolonifera* cultivars Penncross, side areas of the putting greens have disastrous conditions.

Maintaining dell'*Agrostis stolonifera* requires control of certain cryptogams in particular:

- 1.) *Microdochium* patch (pink rot) occurred with rounded patches, has a broad thermal adaptation, between 0 and 15 ° C.
- 2.) *Microdochium nivale* may occur from late autumn after heavy snowfalls, until late spring;
- 3.) *Homoecarpa Sclerotinia* (*Sclerotinia*, Dollar Spot) has more widespread in the warmer months from May to October;
- 4.) *Rhizoctonia cerealis* (yellow spot) favored by low temperatures and high humidity;
- 5.) *Rhizoctonia solani* (brown stain) shows large circular spots, necrotic, with a dark halo, the disease is favored by high temperatures, high humidity and abundant in soils fertilized with nitrogen and irrigated lot.

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6



Large areas of the putting green on which they occur and attacks of rot rizoctonia.



Dressing of seed mixtures performed **S.G.D.A. S.r.l. - ECOENZIMI® (IAGROENZYM -G, CONCIAZYM)**. The seed is used *Agrostis stolonifera* var. Pennncross. As you can see from the picture tanning was carried out by mixing the seed with the tanning product to facilitate contact.

Manual distribution of seed tanned in putting green. Sowing took place on 23.03.2009.

After two weeks the seed tanned with the enzyme mixture of **S.G.D.A. S.r.l. - ECOENZIMI®** has proven to exceed the critical phases of germination and to resist fungal attacks in the soil, unlike the previous sowing where the plants did not exceed fourteen days



Picture taken on 04.06.09

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picture taken on 04.21.09,

7



They spent four weeks from sowing the treated seeds with the mixture of enzyme **CONCIAZYM** of **S.G.D.A. S.r.l. - ECOENZIMI®**. The results are very positive because the plants resist stress by cryptogams, and treading.



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