

Natural And Organic– Bio-fertilizers

Soil and Plant Growth Products and Fertilizers

Introduction: The products made by us are conforming to the standards set by our technology provider – Shimamoto Microbial Industry Co. Ltd. of Japan.

The Shimamoto Agricultural method places importance on the soil. To focus on improving and maintain the quality of soil and to develop the microbial eco-system in the soil.

As the products are focused on nourishing the soil, the usage can be tailored to all sorts of plants and crops that are grown in soil. From food grains and food crops, to fruit bearing trees and flowering plants, all soil based cultivation, be it in farms or in domestic use can benefit by the application of the Microbial bio-fertilizers. Our products are marketed under 'SUNNOKU' brand.

The products - Koujikin and Sunnoku brand series - are powdery in nature and are applied to soil around the roots.

PRODUCTS

Description and Usage

- a. **Koujikin**, is also known as **Soil-Yeast**. This is a soil improving product, introducing beneficial microbes into soil.

Its main focus is to enrich the soil with carbonaceous matter, and develop the soil bacteria and micro-organisms which help improvement in the soil quality. The micro-organisms release nutrient soluble enzymes. The enzymes help in increasing the availability of nutrients for the plants, thereby improving the uptake and developing better plants / crops and improving the yield.



The addition of Koujikin build good soil to the field, and help develop enzyme generating microbes and bacteria and fungi.

Koujikin has as ingredients – base material of volcanic origin with micro- nutrients. The other materials are, agro products like rice bran, vegetable starch, processed bone meal fertilizer – containing nutrients like Calcium, potash, and phosphates. The micro-organisms are present as a consortium. The consortia release enzymes to solubilise the nutrients, as well as to improve the uptake of nutrients.





Koujikin, also known as Soil Yeast, is a supplementary fertilizer, to be applied with regular fertilizers. It will enhance the efficacy of the fertilizers used, improving the performance. Generally with regular use, over time the quantum of regular fertilizer can be reduced.



Physically it is a grey powder, with neutral pH, and can be used in different types of soil. It is available in retail packs, suitable for home gardens and smaller needs as well as in bags of 30 Kgs for larger farms.



Koujikin is applied by hand broadcasting . It can be applied on its own or mixed with organic fertilizers like compost and vermi-compost or with chemical fertilisers like Urea, NPK Complex fertilizers, DAP, MOP etc. Presence of moisture is essential for the microbial action to start, which releases the beneficial enzymes.

For potted plants, indoors or outdoors and in smaller gardens and kitchen gardens, Koujikin can be applied to the root of the plants, to improve the growth and plant performance. The instructions on the retail pack to be adhered to for better results.

The Retail pack is sold in the name of “Soil Yeast “. For such uses, 20 to 50 grams are recommended for each plant – for larger plants and small trees, 80 to 150 grams. The powder has to be applied near the roots and watered adequately. Soil should have good drainage.



SUNNOKU is the retail brand under which the products are marketed.

Koujikin is marketed as Sunnoku - Soil Yeast in retail. Sunnoku - Veggies and Sunnoku – Floral are the nutrient based bio-fertilizers. These products combine the nutrient values of natural organic fertilizers with bio-fertilizers.



Sunnoku Veggies and **Sunnoku Floral** are bio-enhanced natural organic fertilizers, produced by hydrolytic fermentation process.

Sunnoku – Veggies is made with natural and organic materials as our other products are. It has basic nutrients for plant growth and enzyme producing micro-organisms. The bio-enzymes improve nutrient absorption as well as enhancing the biological activity of plants. Sunnoku-Veggies can be used a basal fertilizer as well as a supplement when used together with other fertilizer. It can be used together with chemical fertilizers also.



Sunnoku-Floral is an organic biofertilizer, made with natural and organic materials. The use of Sunnoku-Floral help plants to attain good growth and enhance the blooming of flowers. The micro-organisms in it produce beneficial enzymes, help to improve the uptake of nutrients from the soil and improve the biological activity in the plants. Sunnoku Floral can be used for all types of floral plants and ornamental plants - both outdoor and indoor plants.

The main ingredients of these products are – Natural manure from various base materials like – cow dung, goat droppings, steamed bone meal fertilizer, green manure, farm yarn manure. Agro-residues and wastes like straw, bagasse, bran, husk are also used depending on formulation together with natural micro-nutrient powder. The fermentation process.



The process of compost forming is with the use of micro-organisms which convert the materials into organic compost.

SAFETY:

All of our Bio-fertilizers are safe for humans and animals and do not harm soil or water bodies. As the materials are powdery face masks are recommended, especially for those having respiratory problems.

To be stored in cool and dry place, away from direct sun light and moisture. The shelf life is 18 months.

METHOD OF USE:

- a. Koujikin can be used for Organic Farming, by applying together with suitable organic fertilizer like Vermi Compost, Garden Compost, Farm Yard Manure (FYM). When organic fertilizers, are used as primary fertilizers, Koujikin can be mixed with them at the rate of 30 Kgs per acre – for crops like paddy.

Koujikin has to be used after transplanting by hand broadcasting.

When Koujikin is used with base manure – prior to transplanting, it is advisable to transplant within a week after Koujikin has been applied. A second application at 15 Kgs per acre can be applied as a second dose, with farm manure within 25 to 30 days after transplanting.

For Organic farming, Sunnoku – Veggies is a suitable organic fertilizer, to be used together with farm yard manure or cow-dung or green manure as may be available. Quantity of Sunnoku to be used is 30 Kgs together with Koujikin 10 Kgs. Other practise to be as normally followed for organic farming.

- b. Adequate moisture is essential for the microbes to be active and release enzymes needed for nutrient absorption and plant growth.
- c. When used with chemical fertilizers like Urea, DAP. MOP or NPK – Koujikin can be used at the rate of 20 Kgs per acre. To be mixed with the chemical fertilizers thoroughly and hand broadcasted.
- d. If chemical fertilizers are used in different stages, Koujikin can be applied on its own, after the fertilizers have been applied.
- e. When used with chemical fertilizers, the preferred time to apply Koujikin for paddy is about 20 days after transplanting.
- f. While broadcasting by hand, it is advisable to bend low and apply. To stand away from wind direction.
- g. Good amount of irrigation in the is needed.

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