

## Give Nature What Nature Wants



### **TOBACCO:**

Tobacco is a plant within the genus *Nicotiana* of the Solanaceae (nightshade) family. While there are more than 70 species of tobacco, the chief commercial crop is *N. tabacum*.

The more potent species *N. rustica* is also widely used around the world. Tobacco contains the alkaloid nicotine, a stimulant.

### **Ground preparation:**

Although this first step is a recommendation only, therefore optional, we strongly advise applying it to ensure that the soil has a healthy bacteriological activity prior seeding or transplanting seedlings.

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**Ergostart Bio:** 125 Kg Per Hectare

Following the application of the Ergostart Bio, wait 15 days prior seeding or transplanting.

The above is applied with sufficient water, generally diluted 1:50 (1 Kg of product to 50 liters of water).

Ergostart Bio will immediately start decomposing all inert organic matter into plant food. More important it will de-mineralize any accumulation in the rhizosphere that is and has suffocated the soil.

It will start by converting all of the above into humus, thus rejuvenating tired soils and allow normal and healthy roots development.

**OR**

**Ergo Plus:**

In the interests of decreasing transport costs, we have developed Ergo Plus in order to provide the same benefits as above, with much less product required.

The protocol is as follows:

| <b><u>PRODUCT</u></b> | <b><u>HOW MUCH</u></b> | <b><u>WHEN</u></b>                            |
|-----------------------|------------------------|---|
| ERGO PLUS             | 10 KG per HECTARE      | ANYTIME- 15 days pre seeding or transplanting |

**Ergofito Universal Plus application:**

After ensuring that the soil has all the required minerals, trace elements, correct Ph. and its fertilization, apply Ergofito Universal Plus in the following manner:

**FIRST APPLICATION:**

| <b>Bio Agent</b>   | <b>When</b>              | <b>Quantity</b>  |
|--------------------|--------------------------|------------------|
| Ergofito Universal | When planting or seeding | 10Kg Per Hectare |

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**SECOND APPLICATION:**

| Bio Agent               | When                            | Quantity         |
|-------------------------|---------------------------------|------------------|
| Ergofito Universal Plus | 30 Days after first Application | 10Kg Per Hectare |

To apply the above to either the soil or as foliar application, mix Ergofito Universal with water at a minimum ratio of 1:200.

Ergofito Universal can be distributed radically via the drip irrigation simultaneously with the regular fertilization. It can be applied via a pivot, bowser or any existing method of irrigation available.

**Test case South Africa:**

The tray of tobacco saplings on the right was treated with Ergofito Universal Plus. The plant development is evident when treated.





**Test Case Uganda:**

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UGANDA TOBACCO SERVICES LIMITED

ERGO-FITO TRIAL EVALUATION REPORT

Note:

Ergo-Fito (a soil conditioner and fertilizer product) was applied to exhausted soils in three Tobacco growing areas.

Namely: Mubende, Kibaale, and Kagadi zones respectively.

-Visual observation was carried out to evaluate the crop performance.

Below are observations typical on Mubende model farm.

| PARAMETER           | VISUAL OBSERVATION<br>(WHERE ERGO-FITO WAS APPLIED) | VISUAL OBSERVATION<br>(NO-APPLICATION) |
|---------------------|---|--|
| Plant colour        | deep green  | Pale                                   |
| Plant vigour        | High vigour   | Small Plant                            |
| Stem thickness      | Usual size  | Usual size                             |
| Leaf length         | 3.3feet   | 2.5feet                                |
| Leaf Width          | 1.3feet   | 1feet                                  |
| Inter node Distance | 3-inches  | 3-inches                               |
| Root development    | Very Thick  | Small roots                            |

**Below is the pictorial observation**





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What happens when usual fertilization is applied continuously?

Normally chemical fertilization is never efficient and its intended purpose decreases in efficiency with time and usage. Basically if the plant is not in equilibrium with the soil, it cannot absorb what it requires. It is economically wrong to continue this fertilization practice which does not take into consideration the needs of the Rhizosphere and its bacteria colony.

The conclusion is that often, what is missing in most soils is not nutrition but the correct microbiological activity needed by the plant to absorb it.

Solution:

**The regular application of Ergofito will maintain the natural balance in the Rhizosphere.**

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