



*HORTISOL*

**PRODUCT CATALOG**

## Kañamu Pacha „Hortisol“

### **Product description:**

Kañamu Pacha "Hortisol" is an soil substrate for urban gardening and the cultivation of valuable medicinal plants, such as CBD hemp or medicinal cannabis. It is based on the Terra Preta composting technique, which was already applied thousands of years ago in the Amazon rainforest and helped the indigenous peoples to prosperity and abundant food supply. This means that chemical additives are not needed at all and fertilizers are not necessary when used as recommended. The building blocks of nature and the power of (microbial) life are the engine of our soil. A potting substrate like a real, nutrient-rich and living organic soil - only a little bit better...



## Properties:

- approved for organic farming according to EC Regulation No 834/2007 and No 889/2008
- no fertilization during the entire cultivation period\*, simply keep the substrate moist and provide the plant with sufficient water
- optimal water storage and nutrient buffer on Terra Preta basis, from which the plant can constantly serve itself during the complete vegetation and flowering phase, while microorganisms refill the buffer at the same time
- rich soil life making plants healthier and naturally more resistant to pests and diseases
- The buffering effect compensates for fluctuations and cultivation errors and enables consistently high quality with consistent yields
- helps the plant to grow and develop all its ingredients and active ingredients in the best possible way
- no problems with over- or underfertilization, measuring or mixing errors
- free from questionable raw materials such as peat, coconut fiber or perlite
- consists of harmless raw materials - biologically and ecologically sustainable
- proven uncontaminated (pesticides, herbicides, fungicides, antibiotics, hormones and heavy metals)



## Product characteristics:

Type designation:

Culture substrate for plants with higher nutrient requirements, substrate group II, individually approved according to §9a DMG 1994

## Manufactured from:

Quality compost according to the Compost Ordinance for the application area hobby gardening, wood fibre, vegetable charcoal, Leca breakage, quartz sand, sulphur, horn shavings

## **Chemical composition:**

### **Parameter Unit Value**

pH in CaCl 6.0 - 7.0

Salinity (KCl) g/l < 4.0

Nitrogen available\* mg/L N 200 -500

Phosphorus available\* mg/l P<sub>2</sub>O<sub>5</sub> 40 - 300

Potassium available\* mg/l K<sub>2</sub>O 340 - 2550

Magnesium available\* Mg/L 320

Bulk density (i.TM) g/L 500

Org. substance (in dm) % 35

\*Plant available start value. Microbial decomposition processes constantly release nutrients

## **Recommendation for application and dosage:**

Our „Hortisol“ was developed as a potting substrate. We recommend breathable fabric pots as the potting substrate.

In order to be able to work without fertilizer, a highly demanding plant with a life cycle of 12 to 16 weeks requires approx. 15 liters of substrate. If less hortisol is used, it is always possible to re-fertilise with standard organic organic fertilisers if necessary.

Simply fill the substrate into the selected plant container and loosen it up, as it may be compacted by storage.

Place the root ball of the plant in a previously dug out hollow and cover with sufficient substrate, press down lightly and add sufficient water.

Supply the plant with sufficient light, air and water.

To control any pests that may infest the plant during cultivation, we recommend the use of biological agents and/or beneficial insects.

## Kañamu Pacha "Living Biochar"

### **Product description:**

Kañamu Pacha "Living Biochar" is the optimal additive for all substrates and is the cornerstone of every Terra Preta. It is an organic vegetable charcoal activated by a composting process. Our already charged vegetable charcoal stores plant-available nutrients and protects them from being washed out by watering water. The vegetable charcoal serves as a habitat for important microorganisms. These microorganisms are an important component of every healthy soil and promote plant growth in the long term. Our "Living Biochar" activates every soil substrate and gives it the necessary life.

### **Properties:**

- Biologically activated vegetable carbon substrate
- Made from biologically certified vegetable coal
- Already contains microorganisms, minerals and nutrients
- The perfect additive for all substrates, potted crops, beds, raised beds, Bokashi and own substrate mixtures
- Promotes soil life and stores nutrients in a form available to plants
- Biologically activated via composting
- For the production of your own Terra Preta



## **Product characteristics:**

### **Type designation:**

Soil additive, individually approved according to the Austrian Fertilizer Act 1994, §9a

### **Manufactured from:**

Vegetable coal (individually approved according to §9a DMG 1994, produced from grain husks, fruit stones and wood), treated with ammonium sulfate solution, rock flour and Quality compost A+ (produced according to the Austrian Compost Ordinance, 2001)

## **Chemical composition :**

Parameter Unit Value

Nitrogen available % 1.6

Phosphorus available % 0.7

Potassium available % 0.8

Org. substance (i.TM) % 33

pH value 6-7

Debris weight (i.d.m.) g/L 500

Since it is a natural product, the values given are also subject to these natural fluctuations.

## **Application and recommended dosage:**

Mix into substrate mixtures to 5-10 volume percent. Areas: 3-10 liters per

Sprinkle on square meters and work in superficially. In compost or Bokashi layer by layer sprinkle in.

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