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## Farina di Basalto-Basalt Powder- Strengthening enhancer of plant defenses

### PRODUCT DESCRIPTION

The micronized Farina di Basalto -Basalt Powder- is obtained through the mechanical grinding of the Basalt from Orvieto Italy, by using of ceramic elements, with no minerals or other substances addition, nor using wash water. The Basalt from Orvieto is a basic rock of volcanic effusive nature containing naturally occurring mineral elements, such as silica, alumina, potassium and calcium. The good amount of magnesium helps plants in photosynthesis.

It does not contain free crystalline silica nor minerals containing asbestos, nor substances harmful to the environment or animal life.

Given its fineness of <30µm its applied in aqueous dispersion, sprayed with manual or mechanical nebulizer.

### NOT A PESTICIDE NOR A FERTILIZER

Product usable in organic and biodynamic farming according to Regulation (EC) 834/2007 and Regulation (EC) 889/2008.

The Farina di Basalto -Basalt Powder- is an effective organic way to supply the soil with nutrients, especially in extensive and intensive cultivations depleting the soil of mineral elements. Used in its natural state mixed together with traditional natural fertilizers (manure, animal manure) and synthetic fertilizers (soluble salts of nitrogen, potassium, phosphorus), it guarantees a slow and gradual release of potassium present in basalt. It also proceeds to a temporary "capture" by cationic exchange of the nutritive elements brought by mineral fertilizers and natural fertilizers (sewage, manure), which subsequently releases. There is therefore a greater availability of nutrients for crops and a lower loss for run-off.

The Farina di Basalto -Basalt Powder-, due to its physical structure and mineralogical composition, as well as providing a good quantity of silicon, essential for the life of the plants, it forms a natural protective barrier on leaves and fruits, acting as a physical barrier, forming a thin patina, which thanks to its hygroscopic characteristics, can act as a insect repellent by mean of mechanical action, and as a dehydrating, by drying the outer part of the plants and thus reducing the risks of proliferation and development of pests. This patina does not interfere in the gas exchange of the plant.

The silicic acid favors the strengthening of the plants, from the roots to the leaves, moreover, its composition, (comprising mineral elements and microelements), helps to strengthen the plant, so to prevent seasonal stress deriving from water deficits or pathogenic attacks.

The thin layer of mineral particles of the Farina di Basalto -Basalt Powder- prevents the settling of harmful insects on the fruits of the plants, thanks to its physical anti-repellent action effects, is particularly useful in fight against the "Bactrocera oleae (Gmelin, 1790)" (olive fly) .

On vine and fruit plants it prevents the proliferation of fungal diseases on the foliar system.

### General informations

Basalt flour acts on crops by a mechanical action, creating a thin layer of mineral particles on plants. **For this reason it is essential to guarantee a uniform and continuous coverage for the whole period of possible damage. It is essential to intervene in prevention therefore at the beginning of the ovipositor of insects and of the infection of fungi.**



### Mixing instructions

The product is not soluble in water therefore we recommend the use of a sprayer equipped with a continuous mechanical stirrer. If the recirculation pump is pouring into the mixing tank, slowly add the product directly into the mixing tank. If the machine does not have a mixing barrel, pour the Farina di Basalto -Basalt Powder- into the recirculating water very slowly. Avoid throwing the product near the water intake of the pump to prevent occlusions. Continue to stir for the entire spraying time.

At the end of the treatment, wash the filters and nozzles with clean water.

If the Farina di Basalto -Basalt Powder- is to be mixed with other products, it is advisable to prepare a small amount and check the covering capacity of the product. If you form lumps or change viscosity, products may be incompatible.

However, add plant protection products only after placing the Farina di Basalto -Basalt Powder-.

### Doses and volumes of application

**Concentration:** Use the Farina di Basalto -Basalt Powder- at a concentration between 4 and 6kg per 100 liters of water according to plant dimensions and concentration.

**Application volume and coverage:** For plant heights between 3 and 4 meters we recommend 1000 l / ha. For smaller plants, such as the vine, we recommend 300-500 l / ha. The first two applications must be performed at the maximum concentration, so as to guarantee total coverage. However, verify during application if the aforementioned volumes are consistent with a uniform coverage of the leaves and the fruits, avoiding dripping. In particularly dry and hot periods it is suggested to increase the application volumes.

The product is not phytotoxic even in case of an overdose and does not require a period of shortage.

When the treatment is performed correctly, the leaf surface will become light gray (by the effect of the minerals) when dried and a thin layer of dust can be touched. When the dry foliage loses this color is time to repeat the treatment.

Apply Farina di Basalto -Basalt Powder- after heavy rainfall, the product will re-establish the cover as soon as the foliage is dry. However, if observed even after a rainfall that the leaf surfaces is still uniformly covered, no application is needed.

Do not apply on very wet foliage.

### STORAGE AND DISPOSAL

Store in a dry and ventilated place. The outer packaging may weaken and / or change color if exposed to sunlight for several months a year.

The product does not require specific transportation procedure.

In any case, compliance with the good transportation and handling regulations is recommended. Make sure that the product is carefully covered so as not to alter the state of the packaging.

The product is neither inflammable nor explosive and no harmful substances are released in case of contact with fire.

Disposal of the product and packaging must be in accordance with current local laws and regulations.

### PRECAUTIONS

During handling, we recommend the use of a dust mask, gloves and goggles, as required by good work hygiene practice.

The product is not toxic if ingested or inhaled and does not cause problems with the skin contact unless specific allergies to the product's mineral components.

If inhaled or eyes contact, it can cause discomfort like a powder hence wash thoroughly with cold water.

If swallowed, do not induce vomiting and contact your doctor in case of symptoms.

For more information refer to the safety data sheet.