

Instructions for use

Product name: 'BioFil® Acidic' Soil Inoculant

Purposes of application:

The product stimulates microbial soil life in acidic (pH 4-7) soils. It is applied in a dose of 1.0-1.5 l/ha diluted in 50-200 l/ha water (depending on the spraying tool), landspread and immediately rotated into the soil during seedbed preparation.

Composition:

Bacteria: *Bacillus simplex*, *Pseudomonas frederiksbergensis*, *Agreia pratensis*, *Paenibacillus peoriae*, *Exiguobacterium acetylicum*, *Azospirillum largimobile*, *Azospirillum brasilense*.
Bacteria (0.8 m/m %), substratum (0.7 m/m %), water (98.5 m/m %).

Storage:

Indoors, in original, sealed packaging, in dry, refrigerated but frost-free place. Do not expose the product to direct sunlight and radiant heat.

Best before: in original, unopened packaging:

between 0-5 °C for 6 months (temperatures lower than 0 °C damage the product)

between 6-10 °C for 4 months

between 11-20 °C for 1 month

between 21-25 °C for 2 weeks

BioFil® soil inoculants must not be mixed with the following compounds: acids, alkalis, cleaning supplies, disinfectants and bactericides.

Treatment:

The product does not have any known negative environmental or health hazards, it is not flammable or explosive.

The product is non-toxic, has no harmful effects on plants and animals.

Neither the ingredients, nor the process of production involve GMO or GMO-related elements, the product can be used in organic farming.

Regular conditions of hygiene must be implemented.

Health hazard period at work: 0 days

Please consider general rules of work safety when using the product. Avoid the product getting in eyes, mouth or damaged skin. After finishing the work wash hands, take a shower and change clothes. After use the clothes and protective equipment have to be washed properly with cleaning solution. By observing allergy symptoms the work has to be stopped immediately.

Application:

1. The product is used in operating on fields for stimulating soil life in acidic and normal (pH 4-7,5) soils.
2. The dosage of the product is 1.0-1.5 l concentrate/ha, before the application this dose has to be diluted in a tank. The inoculant cannot be used without mixing it with water. If the inoculant is intended to be sprayed together with other products, we recommend making a sample mix before use.
3. The dilution (tankmix) has to be prepared with 50-200 l/ha water, depending on the equipment of application and the soil conditions (less in case of higher water content - more in case of dry soil). By using tap (chlorine) water to make the solution, let the water lose the chlorine content (let it aerate for a few minutes).
4. The inoculant concentrate must be shaken properly before use (i.e. before mixing with water).
5. Any sprayer can be used for the landspreading. It is recommended to choose the height of dispersion close to the soil surface to avoid product drift. If possible, use equipment that has a permanent tank mixer, to ensure even distribution of the ingredients. The treatment has to be performed with soil temperature over 0°C; intensive (over 6) UV radiation has to be avoided. The tank must be thoroughly cleaned before use, carryover of formerly used pesticides may cause effectivity loss of the product.
6. Don't mix the inoculant with bactericides and fungicides, because most of these compounds have negative effects on the performance of our product.
7. After preparing the tankmix the product has to be applied to the soil as soon as possible (ideally within 2-3 hours after mixing), or at latest within 12 hours after mixing!
8. The product has to be sprayed directly to the soil surface and rotated or mixed into the soil as soon as possible (e.g. with disc harrow, hoe). The dispersion can be performed simultaneously with seed bed preparation (1-2 weeks before seeding) or seeding, also in the same run. Soil mixing depth of the product has to reach at least the depth of seeding. The effectivity of the product left on the soil surface is affected negatively by drying and UV radiation. Use the product under environmental conditions generally suitable for seedbed preparation or seeding.

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