



Liquid silicon fertilizer

Immuno Activ Si

Protection and resistance

Description and performance:

The most recent scientific research shows that silicon is a very important element for plant growth due to its crucial role in optimally shaping the immune system. Silicon particularly contributes to increasing plants tolerance to unfavourable environmental conditions and stress factors.

Immuno Activ Si is a liquid foliar fertilizer of the latest generation, containing potassium silicate compounds, which have a beneficial effect on plant immunity, and consequently results in increased yield. The silicon absorbed by the plant is deposited in the cell walls, causing their strengthening. The deposition of silicon in the cell wall hinders any pathogen – eg. fungi and pests such as aphids - attacking the plant. The beneficial effect of silicon nutrition is particularly important in alleviating stress factors such as low and high temperatures and exposure to drought. **Immuno Activ Si** reduces the stress associated with water deficit by reducing transpiration rate and enhancing a root growth. The silicon-reinforced cell walls contributes also to increase plants tolerance to frost.

In addition, it is worth to mention, that **Immuno Activ Si** has also a beneficial effect on increasing sugar polarization in sugar beet as well as improving the taste of the fruits (increasing its perceived sweetness).

Application:

The fertilizer is designed for foliar feeding or soil application on agricultural, vegetable and fruit crops. In order to achieve maximum efficiency of silicon, (in the form of the most absorbable orthosilicic acid), maintaining the correct order of adding components of the working liquid is a prerequisite.

It is recommended to succesively add the following ingredients to the sprayer tank:

- » Water » **AquaSoft** 0,3-0,5l / 1ha » **Immuno Activ Si**
- » other micronutrient fertilizers for example **ActiPlon** or **Actipol®**
- » **Magnesium Sulphate Monohydrate** » **Fosfi Activ** (optional)

Due to simultaneous application of **Aqua Soft** and **Immuno Activ Si**, orthosilicic acid is gradually released and can be effectively absorbed by the leaf.

Immuno Activ Si

Nutrients % [m/v]			
Product	Nitrogen (N)	Potassium (K ₂ O) soluble in water	Silicon (SiO ₂) soluble in water
Immuno Activ Si	4	16	26

Indicative doses:

Crops	Time of application	Dosage [l/ha]	Working solution [l/ha]
Winter cereals	1 – Autumn – 3-6 leaves phase 2 – Spring - tillering 3 – Blade shooting	0,5	200-300
Spring cereals	1 – Spring - tillering	0,5	200-300
Legumes	1 – Leaves and shoots development	0,5	200-300
Rapeseed	1 – Autumn- 4-8 leaves phase 2 – Spring – after moving of the vegetation	0,5	200-300
Maize	1 – 4-8 leaves phase	0,5	200-300
Beetroot	1 – Before merging of the rows	1	200-300
Other crops	1 – Spring and autumn 1-2 treatment	0,5	200-300

Results of using Immuno Activ Si:

- improved cell wall strength and structural integrity
- increased tolerance to stress
- improved drought and freezing tolerance (especially in trees)
- fungistatic action (inhibiting fungal growth)
- significant yield improvement
- improving the commercial quality of sugar beet by increasing the degree of sugar polarization

Arkop

We have been building our experience in the fertilizer industry since 1992. Our goal is to manufacture fertilizers making it possible to derive the very best nature has to offer. For this reason, our extensive product range entails the latest developments in biotechnology, in particular top grade chelates (chelation level confirmed by PCBC – Polish Center for Testing and Certification).

As a result of our close long-term cooperation with scientific institutes and universities, we have manufactured proven and effective products. We constantly monitor our production process and incorporate the requisite modifications in striving to continue improving our offer and aligning it to meet customer needs and expectations.

EC FERTILIZER



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We enhance nature

