Sukra AA Pack

COMPOSITION

Component	Content
Boron (B) water soluble	8.0% w/w
Calcium (CaO) water soluble	8.0% w/w
Zinc (Zn) water soluble	8.0% w/w
Free Amino Acids	8.0% w/w

PHYSICOCHEMICAL PROPERTIES

pH (5% solution)	6 - 7
Water solubility	100%

GENERAL INFORMATION

Sukra AA Pack is a corrector of Boron, Calcium, and Zinc deficiency with amino acids, using COLZIME technology. It has been used in the United States for over 10 years and in Europe since 2011, officially launched in 2014. Field tests show yield increases of up to 400 kg in sunflower and 180 kg in soybean.

It is recommended for foliar and soil applications with excellent results. Foliar fertilization supplies nutrients directly to the leaves, correcting deficiencies quickly. Traditionally, Calcium, Boron, and Zinc were applied separately due to incompatibility. Sukra AA Pack solves this by combining all three in a high-concentration formula stabilized with amino acids.

This product is compatible with agrochemicals (insecticides, fungicides, herbicides), reducing the number of applications and overall cost.

HOW DOES THE FORMULA WORK?

• Improves vigor: Calcium enhances nitrogen absorption (NH_4^+), supporting amino acid and protein synthesis via synergy with Boron and Zinc.
• Development: Boron and Zinc contribute to the formation of indoleacetic acid and protein synthesis, promoting root and fruit development.
• Biological Action: These deficiencies are most common in calcareous-clayey soils (pH > 7) where these elements form insoluble compounds, limiting absorption.

ADVANTAGES

• Essential for seed fertility
• Increases pollen fertility
• Participates in protein synthesis

• Aids in grain filling and weight
• Involved in sugar metabolism and transport

DOSAGE AND APPLICATION METHOD

Crop	Dose (Kg/Ha)	Application Timing
Soybean	1.0	0.5 Kg at flowering start 0.5 Kg at grain formation (R3-R4)
Sunflower	1.0	0.5 Kg at V4-V6 0.5 Kg at floral bud initiation
Beans	1.0	0.5 Kg at flowering start 0.5 Kg at grain formation (R3-R4)
Peanut	1.0	1st at first shoot 2nd at flowering start
Fava beans, lentils, string beans	1.0	0.5 Kg at flowering start 0.5 Kg at grain formation (R3-R4)

FOLIAR APPLICATION

• Fruit Trees – Dose: 2 kg/ha, Max conc.: 1%. Timing: flower buds, pre-flowering, petal fall, fruit set.
• For reserves: 4 kg/ha, Max conc.: 2%. Apply in autumn.
• Olive – Dose: 2–3 kg/ha, Max conc.: 1%. Timing: start of cycle (spring), after 15 days, and post-harvest.
• Grapevine – Dose: 2 kg/ha, Max conc.: 0.5%. Timing: separated inflorescences, floral buds, fruit set.
• For reserves: 4 kg/ha, Max conc.: 2%. Apply in autumn after harvest.
• Horticultural crops (tomato, pepper, melon, watermelon, strawberry, celery, cauliflower, etc.) – Dose: 3 kg/ha, Max conc.: 0.4%. Apply when plants are well rooted and every 15 days thereafter.

Presentation