

ROKOSAN GUIDELINE AND APPLICATION CHARACTERISTICS



ROKOSAN

Better and healthier world

UNIVERSAL ORGANO-MINERAL FOLIAR FERTILIZER



- applied annually to more than 1 000 000 hectares
- annually uses more than 1000 agricultural holdings

- universal use on all types of agri-crops
- increasing the volume of crop production without any environmental risks
- approved for use in organic farming

SEVERAL TIMES EVALUATES EVERY € 1 INVESTED IN LEAFY NUTRITION

- in the initial phase of vegetation provides the rapid growth and increased resistance to extremes of weather
- improve crop resistance to pests and diseases
- It helps in the regeneration of damaged vegetation
- It improves the quality parameters of crops (sugar content, starch content, etc.).
- It improves glassiness and protein value of cereals (later application in the ears)



GENERAL APPLICATIONS OF THE FERTILIZER



- when it is coupled with the application of fertilizer DAM it enriches the tank-mix with a further nine kinds of nutrients
- we apply in the startup phase of crop or during the entry in plantations
- applied together with herbicides, fungicides, insecticides (tank-mix)
- fertilizer is harmless to bees and after decomposition leaves no residues (residue)
- it can be applied any time of the day without the risk of burning plants
- good adhesion to leaf and resistance against fast drying

ECONOMIC EFFECT

- in simple form and targeted gives to the plant nutrients and missing elements
- it can improve the overall status of the plants with a relatively low cost
- it enhances the effects of pesticides used in tank-mix with foliar fertilizer



UNIVERSAL COMPLEX OF 10 TYPES OF NUTRIIONS



- improve the quality of leaf area and extend the vegetation period
- improving the economy with water and nutrients

- improves metabolic processes between plants and the environment
- nutrients from the leaf surface are fully taken and utilized by plant
- strengthens the natural defenses of plants
- content of copper and sulfur ensures resistance to fungal diseases in the early stages of growth and development of plant

AMINO ACIDS IN FERTILIZERS ROKOHUMIN

- they are a direct source of energy
- positive effect on photosynthesis and respiration of plants
- maintain the vitality and viability of the overall crop
- encourage the acquisition of nutrients from a common tank-mix

HUMIC ACIDS IN THE FERTILIZER ROKOHUMIN

- they are natural growth promoters
- improve the formation of root hairs and intake of nutrients from the soil
- accelerate the regeneration of damaged vegetation (burns or after application of pesticides)

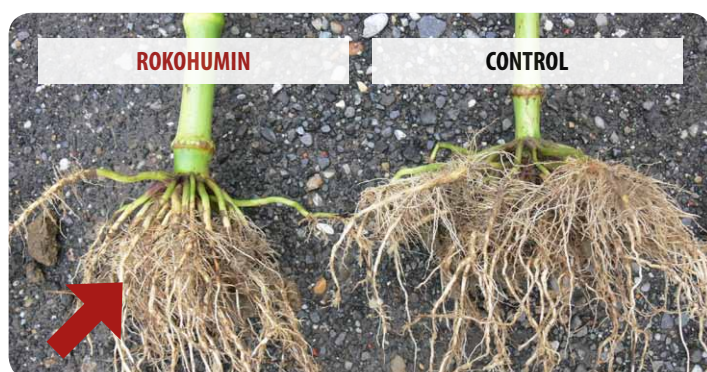
UNIVERSAL ORGANO-MINERAL FOLIAR FERTILIZER



- nutrients from the leaf surfaces are fully taken and utilized by plant
- all-day application without the risk of burning plants is possible

CORN

	Term	Hectar dose (concentration)	Application (tank-mix)	Pros and cons
Single dose	at the stage of 6-8 leaves	5 liters of ROKOHUMIN 150 liters of water	<ul style="list-style-type: none"> • during the entry in plantations • together with a preparations for protection against diseases and pests 	<ul style="list-style-type: none"> • intentionally supplied zinc • intensive development of the root system • regenerates damaged stands • improving nutrient management



BIOSTIMULATION THROUGH HUMIC ACIDS

- better molded root systems
- bigger number of fine root hairs

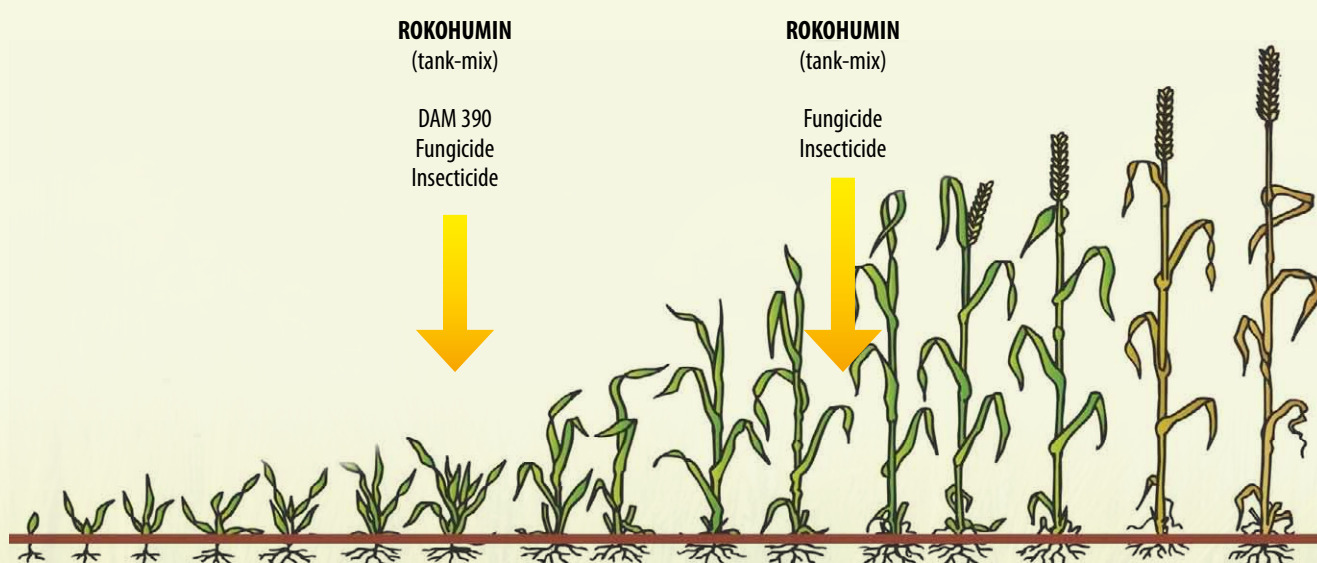
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- on all kinds of cereal
- approved for use in organic agriculture

SPRING CEREALS

	Term	Hectar dose (concentration)	Application (tank-mix)	Pros and cons
Standart application	end of tillering	2.5 liters of ROKOHUMIN 150 liters of water	• during the entry in plantations • at fertilization with the fertilizer DAM 390	• growth stimulus and collection of soil nutrients • better resistance to disease and pests • reduces the risk of burning by the fertilizer DAM 390
	beginning of stemming			
Application into the ear	to the flag leaf	2.5 liters of ROKOHUMIN 150 liters of water	• during the entry in plantations • together with a preparations for protection against diseases and pests	• improving the quality parameters



PROVEN JOINT APPLICATION OF FERTILIZER DAM 390

- add 1 hectar dose of ROKOHUMIN fertilizer (2.5 lit.) in each tank-mix with fertilizer DAM 390
- in addition to the nitrogen the crop is supplied with a further nine essential nutrients
- when added to the tank-mix with DAM 390 it reduces the risk of personal injury / damage to vegetation
- humic acid in fertilizer acts as a natural growth promoter
- achieve good economic effect

NATURAL PRODUCT WITH BIOSTIMULATIVE EFFECTS ON SEED



BASIC CHARACTERISTICS

- supports the development of the germinating root
- improve the collection of soil nutrients and water management
- ensures uniform germination and growth stimulus

APPLICATION

- miscible with all registered stains
- add it to the stain for seed / tank-mix (TM)
- dose of 4-6 liters per 1 ton of seeds



The stained seed



The stained seed treated with a solution N-P-K



The stained seed treated with a solution ROKOAktiv

The aim is to return to the stained seed its original biologically active status as it has before the actual seed stained.

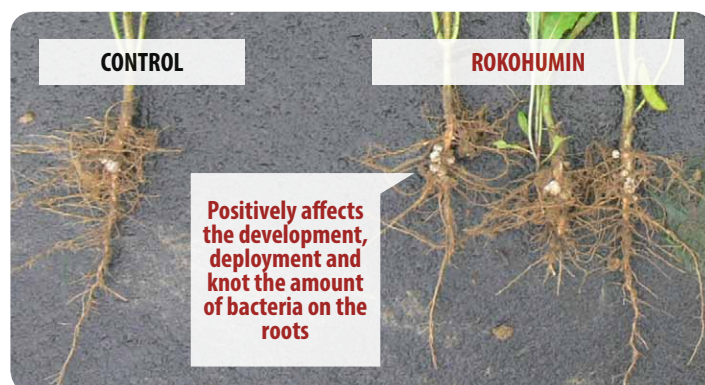
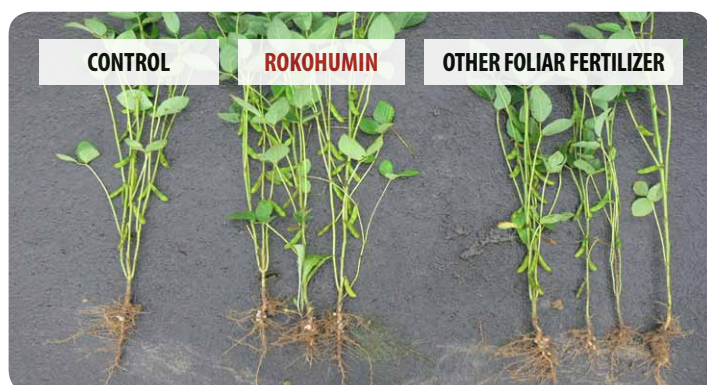
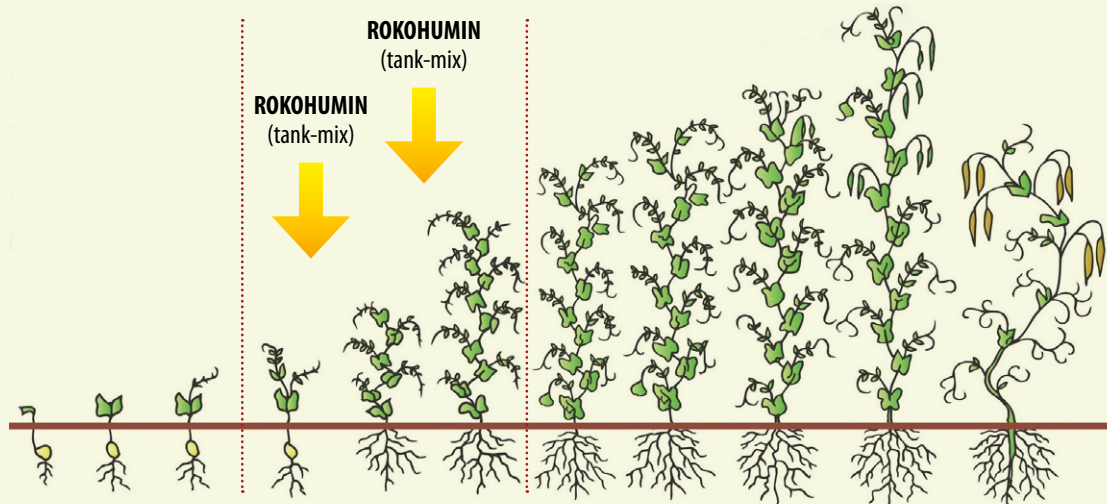
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- made from a nutrient-rich proteinaceous material
- improve the quality of leaf area and extending the vegetation period

SOYBEAN / BEANS / PEAS

	Term	Hectar dose (concentration)	Application (tank-mix)	Pros and cons
First application	at the stage of 2-7 leaves	2.5 liters of ROKOHUMIN 150 liters of water	<ul style="list-style-type: none"> • during the entry in plantations • together with a preparations for protection against diseases and pests 	<ul style="list-style-type: none"> • development of fine root hairs • improve the resistance to drought • growth stimulus and improve metabolism
Second application	during high growth until the beginning of flowering	2.5 liters of ROKOHUMIN 150 liters of water	<ul style="list-style-type: none"> • together with a preparations for protection against diseases and pests 	<ul style="list-style-type: none"> • support flowering • improve the natural defenses of a stand



INVESTMENT IN PLANTATIONS

- increases the yields by the way which is environmentally friendly to the environment
- overall health of the crop may be improved with relatively low cost
- regenerates the vegetation damaged by weather
- amino acid component improves the reception of all nutrients from tank-mix

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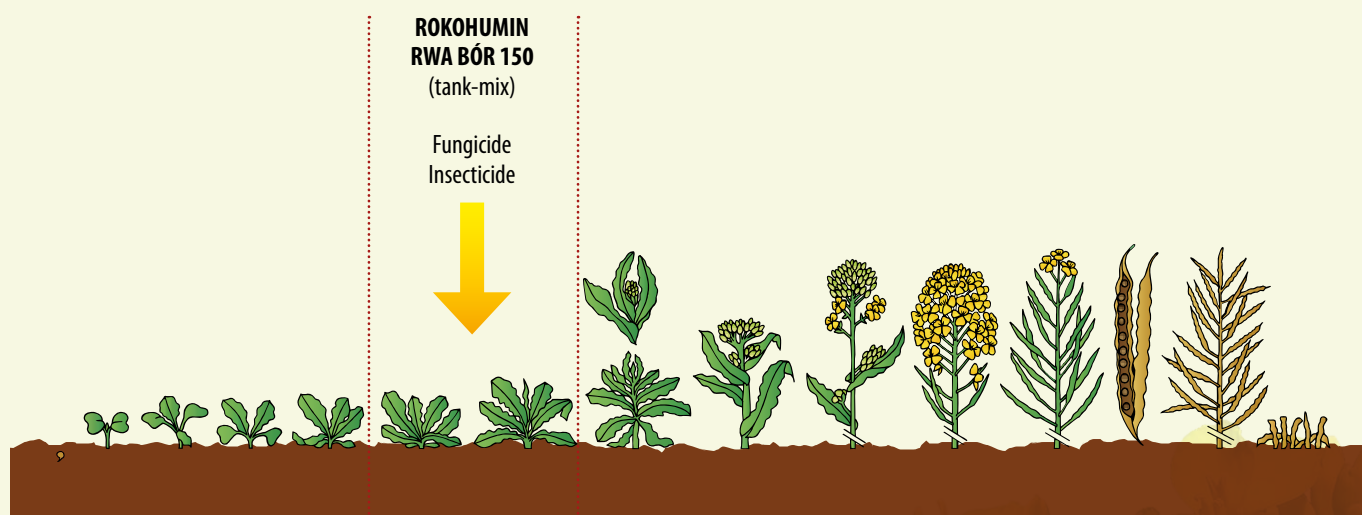


the combination of fertilizers ROKOHUMIN and RWA BÓR 150 forms a tank mix, which is a complex foliar formula for oilseed crops.

Application during the SPRING	ROKOHUMIN	RWA BOR 150	Pros and cons of common TANK-MIX
Regenerates	regenerates crop after the winter / regenerates the damaged plant tissues		improve the collection of nutrients in the soil in the spring
Improves	improving water and nutrients	improves the usability of all nutrients from tank-mix	improve conditioning and overall viability of the crop
Adds	adding a macro and micronutrient deficiency	fully complements deficit of boron	improve resistance to pests and diseases
Supports	promotes better deployment of flora	supports pollination conditions	assumption of higher yields
Ensures	provides better deployment of fruits	ensures a large number of seeds in the seed pods	improving the quality parameters of rape (oil content in seed)

OIL SEED RAPE

	Term	Hectar dose (concentration)	Application (tank-mix)	Pros and cons
Application during the spring	when the soil is covered with leaves by 40 % - 50 %	2.5 liters of ROKOHUMIN 150 liters of water	<ul style="list-style-type: none"> • together with a preparation for protection against diseases and pests • when fertilizing with DAM fertilizer 	<ul style="list-style-type: none"> • growth stimulus and collection of soil nutrients • support inflorescences • improve the overall condition of the crop

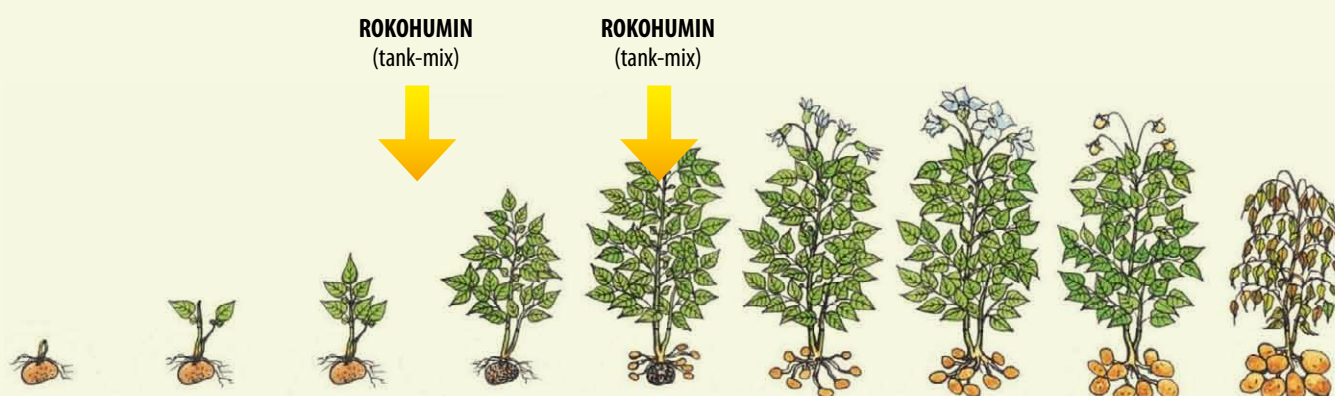


UNIVERSAL ORGANO-MINERAL FOLIAR FERTILIZER



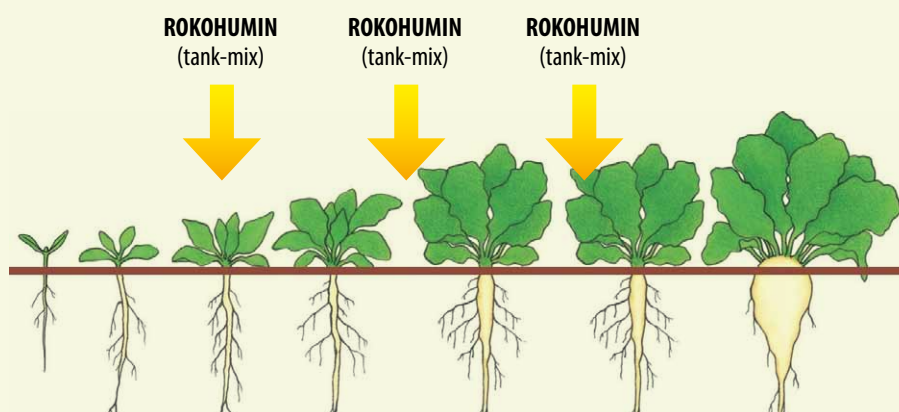
POTATO

	Term	Hectar dose (concentration)	Application (tank-mix)	Pros and cons
First application	when the soil is covered with leaves by 40 % - 50 %	2.5 liters of ROKOHUMIN 150 liters of water	<ul style="list-style-type: none"> • during the entry in plantations • together with a preparations for protection against diseases and pests 	<ul style="list-style-type: none"> • support the growth of tubers • increase the number of tubers • growth stimulus and improve metabolism
Second application	at the use of a preparation for protection against diseases and pests (tank-mix)	2.5 liters of ROKOHUMIN 150 liters of water	<ul style="list-style-type: none"> • during high growth until the beginning of flowering 	<ul style="list-style-type: none"> • improving the overall condition of the crop • anti-aging leaf foliage • an increase of a starch content



SUGAR BEET

	Term	Hectar dose (concentration)	Application (tank-mix)	Pros and cons
First application	when the soil is covered with leaves by 40 % - 50 % (until the lines would not be aligned)	2.5 liters of ROKOHUMIN 150 liters of water	<ul style="list-style-type: none"> • during the entry in plantations • together with a preparations for protection against diseases and pests 	<ul style="list-style-type: none"> • improve the collection of soil nutrients • improve the overall condition of the crop
Second and third application	at 2-3 week intervals	2.5 liters of ROKOHUMIN 150 liters of water	<ul style="list-style-type: none"> • at the use of a preparation for protection against diseases and pests (tank-mix) 	<ul style="list-style-type: none"> • anti-aging leaf foliage • increase root yield • increase the sugar content



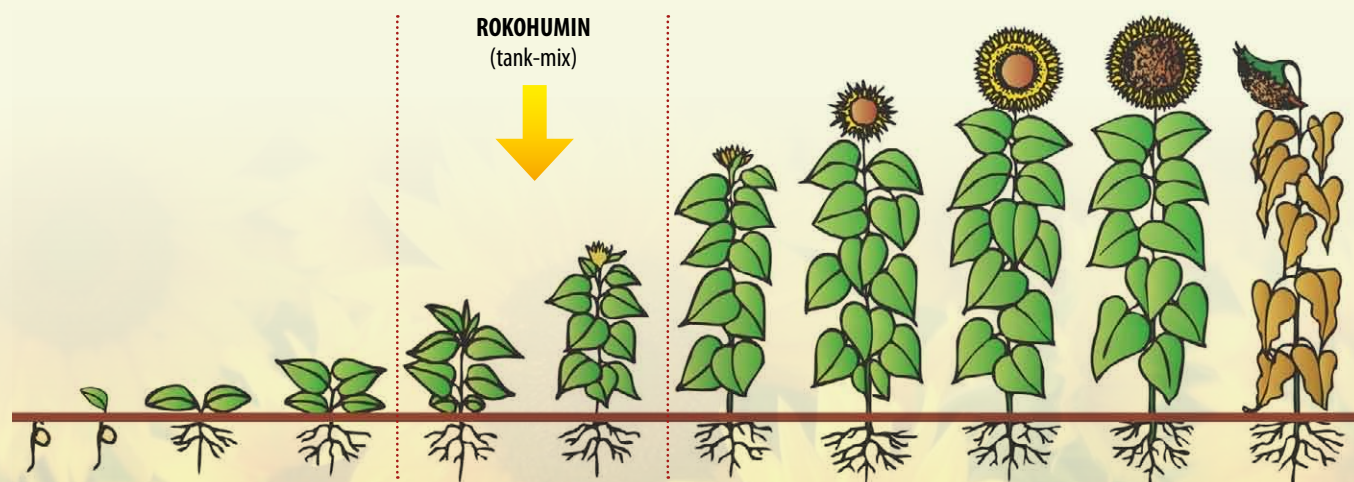
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- we apply in the initial phase of the crop
- fertilizer is harmless to bees and after decomposition leaves no residues (residue)

SUNFLOWER

	Term	Hectar dose (concentration)	Application (tank-mix)	Pros and cons
Single dose	at the stage of 6-8 leaves	5 liters of ROKOHUMIN 150 liters of water	<ul style="list-style-type: none"> • during the entry in plantations • together with a preparations for protection against diseases and pests 	<ul style="list-style-type: none"> • improving nutrient management • copper content of sulfur and is fungicidal • regenerates damaged stands



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APPLE

Dose in liters / hectare	Repeating	Term of application	Accompanying effect	Reached effect
2.5 liters ROKOHUMIN 150 liters of water	3 times with protection against diseases/pests	1st time: after blossoming on young growing twigs 2nd time: 14 - 21 days after first application 3rd time: 2 - 3 weeks after second application	<ul style="list-style-type: none"> - increase of chlorophyll content in leaves (green effect) - increase of amount of leaves - increase of assimilates flow to fruits - significant health condition improvement 	<ul style="list-style-type: none"> - better trees condition (assumption for higher fruit harvest in good quality) - increase of sugar content - bigger fruits

ROKOHUMIN
(tank mix)

ROKOHUMIN
(tank mix)

ROKOHUMIN
(tank mix)



Pink
bud

Full
flowering

End of
flowering
– all petals
fallen

Early
fruit set

Fruit
at 30 %
its final size

Fruit
at half
its final size

Fruit
at about 70 %
of final size

Fruit
at about 90 %
of final size

BBCH 57

BBCH 65

BBCH 69

BBCH 71

BBCH 73

BBCH 75

BBCH 77

BBCH 79

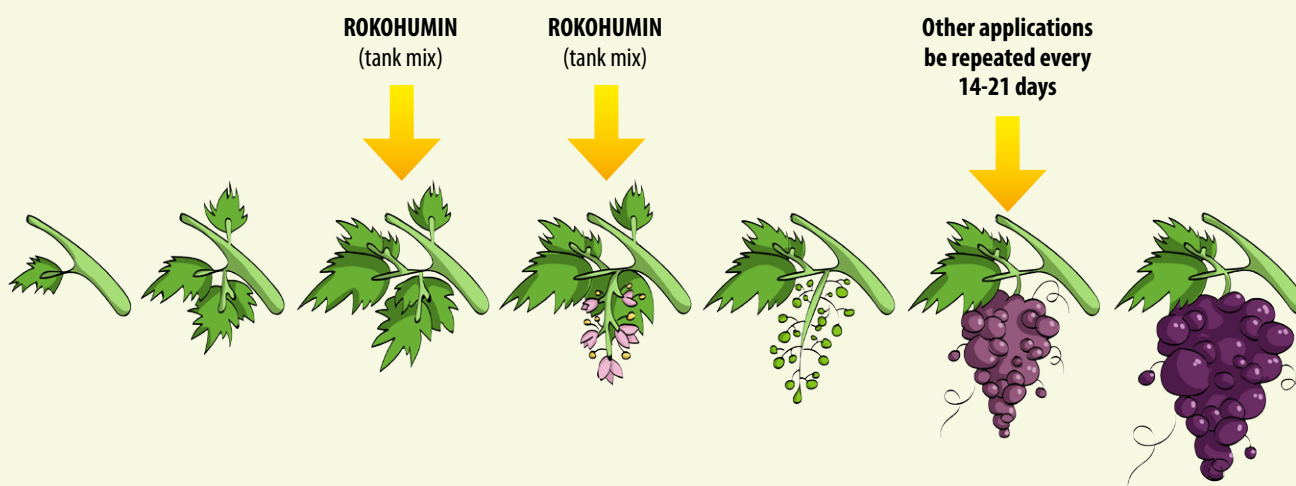


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GRAPE VINE

Dose in liters / hectare	Repeating	Term of application	Accompanying effect	Reached effect
2.5 liters ROKOHUMIN 200 liters of water	5 - 6 times - combination with - protection against diseases - protection against pests (tank-mix)	1st time: application at young growing sprouts – following application after blossoming and then in 2-3 weeks intervals with combination with protection against diseases / pests	- increase of assimilates flow to berries - immediate effect on sugar and acid biosynthesis	- increase of sugar content and extract at modest harvest increase - significant improvement of health condition - growth strengthening and creation of conditions for harvest increase



composition	% in dry matter
N bound nitrogen	min. 14 %
P phosphorus (P_2O_5)	min. 9 %
K potassium (K_2O)	min. 14 %
aminoacids	
humic acids	
S, B, Zn (EDTA), Cu (EDTA), Fe (EDTA), Mn (EDTA), Mo	

1000 liter package



50 liter package



25 liter package



NUTRITION SUITABLE FOR:

VEGETABLES



FRUIT



FLOWERS



GRASS AND LAWNS



SOFTWOODS



Growing	<div>VEGETABLES</div> <div>FRUIT</div>				
Growing plants	Tomatoes, peppers, cucumbers, pumpkins, squash, pattypan, eggplant, watermelons	Savoy cabbage, Brussels sprouts, lettuce, cauliflower, broccoli, spinach, apples, pear, quince	Carrots, parsley, celery, kohlrabi, radishes, beets, garlic, onions, leeks, horseradish, asparagus, fruit trees - stone fruit - plums, cherries, apricots, peaches, nectarines	Strawberry, raspberry, currant, gooseberries, jost grapes, blackberry, tayberry	Lemons, oranges, lime, kiwi, mandarines, grapefruit
What food is useful	Organic fertilizers made of keratin	Organic fertilizer made of pure keratin	Organic fertilizers made of keratin	Organic fertilizers made of keratin	Organic fertilizers made of keratin
Product name	Rokosan P – vegetables	Rokosan U – universal	Rokosan Z – universal	Rokosan J – strawberries, small fruit	Rokosan C – citrus spring Rokosan C – citrus summer / autumn
Food useful for	Vegetables	Leafy vegetables, pome fruits	Root vegetables and Stone fruits	Strawberry and small fruits	Citrus
Picture					
Type of food	Light	Light	Light	Light	Light
Package	1kg	1kg 0,5 kg	1kg	1kg	1kg
Note		Suitable for organic cultivation 			

FLOWERS			VEGETABLES		
FLOWERS			FRUIT		
FLOWERS			FLOWERS		
FLOWERS			GRASS		
FLOWERS			GRASS		
FLOWERS			SOFTWOODS		
Rhododendron, hydrangea, bilberry and heather plants...	Geraniums, fuchsias, phlox, dahlias, sludge, freesia, gladioli, begonias	Roses, flowering plants	Grass and lawns Evergreens	Pine, spruce, fir, arborvitae, juniper, larch, cypress, mountain pine, cedar	All plants - fruits trees, vegetables, small fruits, conifers, herbs (e.g. apple, apricot, pear, carrot, tomatoes, peppers, cucumbers, pine, arborvitae, grass)
Organic fertilizers made of keratin	Organic fertilizers made of keratin	Organic fertilizers made of keratin	Organic fertilizers made of keratin	Organic fertilizers made of keratin	Organic fertilizers with humic acids
Rokosan Ro – Rhododendrons and azalea	Rokosan L – one year plants	Rokosan R – roses and flowering plants	Rokosan T – grass	Rokosan I – softwoods	Rokohumin light
Rhododendrons, azaleas, hydrangeas, blueberries, heather plants	One year plants – Balcony Flowers	Roses and flowering plants	Lawns and grass	Softwoods	All plants
					
Light	Light	Light	Light	Light	Light
1kg 0,5 kg	1kg 0,5 kg	1kg 0,5 kg	1kg	1kg	1kg 0,5 kg
					Suitable for organic cultivation
					Permitted in organic farming of the Slovak Republic

FRUIT				VEGETABLES		
FRUIT				FRUIT	FRUIT	
				FLOWERS		
				GRASS		
				SOFTWOODS		
Apricots, plums, cherry, peach, cherries, nectarines	Apple, pear, quince	Strawberry, raspberry, currant, gooseberries, jost grapes, blackberry, tayberry	Pine, spruce, spruce, arborvitae, larch, juniper, scrub, ornamental trees	All plants - fruit trees, vegetables, fine fruits, conifers, herbs (e.g., apple, apricot, pear, carrots, tomatoes, peppers, cucumbers, pine, arborvitae, grass)	Tomatoes, peppers, cucumbers, pumpkins, squash, melons, carrots, parsley, cabbage, cauliflower, broccoli, celery, cabbage, Rosette cabbage, lettuce, spinach, radishes, beets, leeks, squash, eggplant, horseradish, asparagus	Strawberry, raspberry, currant, gooseberries, jost grapes, blackberry, tayberry
Organic fertilizers with amino acids and humic acids	Organic fertilizers with amino acids and humic acids	Organic fertilizers with amino acids and humic acids	Organic fertilizers with amino acids and humic acids	Organic fertilizers with amino acids and humic acids	Organic fertilizers with amino acids and humic acids	Organic fertilizers with amino acids and humic acids
Rokohumin light	Rokohumin light	Rokohumin light	Rokohumin light	Rokohumin – Universal	Rokohumin – Vegetables	Rokohumin – Strawberry and small fruits
Stone fruit	Pome fruit	Strawberry and small fruits	Conifers and ornamental trees	All plants	Vegetables	Strawberry and small fruits
						
Light	Light	Light	Light	Liquid	Liquid	Liquid
50 g	50 g	50 g	50 g	1L	1L	1L
Suitable for organic cultivation	Suitable for organic cultivation	Suitable for organic cultivation	Suitable for organic cultivation	Suitable for organic cultivation	Suitable for organic cultivation	Suitable for organic cultivation
Permitted in organic farming of the Slovak Republic	Permitted in organic farming of the Slovak Republic	Permitted in organic farming of the Slovak Republic	Permitted in organic farming of the Slovak Republic	Permitted in organic farming of the Slovak Republic	Permitted in organic farming of the Slovak Republic	Permitted in organic farming of the Slovak Republic

FLOWERS				GRASS	VEGETABLES	FRUIT	FLOWERS	GRASS	SOFTWOODS
Geraniums, fuchsias, phlox, dahlias, sludge, freesia, gladioli, begonias...	Rhododendrons, hydrangea, bilberry and heather plants	Orchid	Houseplants	Grass and lawns Evergreens	Pine, spruce, fir, arborvitae, juniper, larch, cypress, mountain pine, cedar	All plants - fruit trees, vegetables, fine fruits, conifers, herbs (e.g. apple apricot, pear, carrots, tomatoes, peppers, cucumbers, pine, arborvitae, grass)			
Organic fertilizers with amino acids and humic acids	Organic fertilizers with amino acids and humic acids	Organic fertilizers with amino acids and humic acids	Organic fertilizers with amino acids and humic acids	Organic fertilizers with amino acids and humic acids	Organic fertilizers with amino acids and humic acids	Organic fertilizer			
Rokohumin – One year plants – Balcony flower	Rokohumin – Rhododendron and azalea	Rokohumin – Orchid	Rokohumin – Houseplants	Rokohumin – Lawns and grass	Rokohumin – Softwoods	Rokohumin – Universal Liquid Fertilizer			
Annuals - Flowers balkonovye	Rhododendron, hydrangea, blueberry and heather plants	Orchids	Houseplants	Lawns and grass	Softwoods	All plants			
									
Liquid	Liquid	Liquid	Liquid	Liquid	Liquid	Liquid			
1L	1L	1L	1L	1L	1L	1L			
					Suitable for organic cultivation 				

WHAT DO YOU GET IF YOU WILL GROW PLANTS RIGHT?

- A strong stimulation of growth will accelerate growth and provide support for germination and rapid growth in the beginning
- Accelerate the growth of seedlings by one-third
- Plants will be stronger and their growth will be sustainable
- The vegetation period of crop during the flowering period will last and will contribute to the saturation of the colors of flowers, especially green leaves
- Biological processes in plants will accelerate to help increase the nutrient content
- The plant could bring as many nutrients, how much it needs, thanks to the gradual release of nitrogen and nutrients
- The content of chlorophyll increased, and will increase the absorption of photons. At low light intensity, we can achieve a higher quality of harvest
- Plant resistance to fungal diseases will rise
- Humates contained in the diet, prevent the accumulation of harmful substances and heavy metals in plants and crops
- A natural way to repel aphids and flies
- Water will remain in the soil
- Achieved excellent results in the field of hydroponic cultivation of plants



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