



AGRO DIVISION



SEE MORE



THE WATER RESERVE FOR YOUR VINEYARD

SUPERABSORBENT POLYMERS

WHAT ARE THEY?

Superabsorbent polymers are materials capable of absorbing water up to 150–200 times their own weight. Excess water from rainfall or irrigation is absorbed by the material and released according to the plant's needs.

PolyGreen® acts both as a water reservoir and as a drainage aid in the event of excessive water accumulation (e.g. during particularly rainy seasons).

Thanks to the mechanical action of the polymer, the soil becomes better aerated.

Since its absorption capacity does not alter the soil's intrinsic chemical characteristics, **it can be used as a technical input in Organic Farming.**



PHYSICAL AND CHEMICAL CHARACTERISTICS



COMPOSITION / Potassium polyacrylate



ABSORPTION CAPACITY

2 g of **PolyGreen®** absorb up to:

- 200 ml of distilled water
- 150 ml of well water (20°F)



DURATION / 4 years in the soil



RELEASE TIME

The hydration effect can last up to 20–30 days, depending on weather conditions, soil type, and plant requirements.



LEAVES NO RESIDUES IN THE SOIL
COMPLETELY BIODEGRADABLE

BENEFITS FOR THE FARM

- Increased soil water-holding capacity and water savings
- Reduced frequency and duration of artificial irrigation interventions
- Improved soil softness and structure thanks to hydration–dehydration cycles
- Reduced erosion phenomena thanks to its sponge-like action
- Enhanced uptake of nutrients naturally present in the soil

HOW DOES IT WORK?

10 g of **PolyGreen®** can retain almost 1 litre of water



NON-TOXIC
FOR PLANTS
AND SOIL ORGANISMS
(CERSAA)

COMPLIANCE DECLARATION

Registered with the Italian Ministry of Agricultural Policies in the register of products with specific action on the soil – ion-exchange resins.

PACKAGEING AND STORAGE CONDITIONS

PolyGreen® is available in 1 kg, 5 kg, and 10 kg packs. Store in a cool, dry place. Protect from moisture.

VINEYARD FIELD TRIALS

RESULTS

- More developed and open leaves
- More open petiolar sinuses
- Rapid growth of apical meristems
- Improved vegetative growth



NURSERY APPLICATIONS

Bare-root vines

Study carried out by Vinext in collaboration with VCR Rauscedo.

Potted grapevine

rootstocks (VCR Rauscedo): Trials conducted at VCR facilities using pots employed for a University of Padua degree thesis.



THE VERSATILITY OF PolyGreen® IN THE VINEYARD USES AND APPLICATIONS

CROP

Wine grapes (new and existing vineyards)

Wine grapes (replacement vines / missing plants)

APPLICATION RATE

90–150 kg/ha, incorporated into the soil using seed drills or fertilizer injectors

20–30 g per plant, spread at the bottom of the planting hole

BENEFIT

Reduced water and moisture loss, increased drought resistance

Up to 90% reduction in plant mortality

EXISTING VINEYARDS

PRODUCT INCORPORATION INTO THE SOIL

- INCORPORATION ALONG THE ROW
(max. 40 cm from the base of the vine)

Mechanical application:
fertilizer incorporators and rippers

- INTRA-ROW INCORPORATION
(to increase water availability and to absorb excess water during periods of heavy rainfall, thereby preventing root anoxia and the formation of puddles and channels that hinder tractor passage)

Mechanical application



NEW PLANTINGS / REPLACEMENT VINES

PRODUCT INCORPORATION INTO THE SOIL

- INCORPORATION ALONG THE ROW
after ploughing and harrowing, before row marking or before planting operations

Mechanical application: fertilizer incorporators

- INCORPORATION DIRECTLY INTO THE PLANTING HOLE
or by using an injection lance

Manual application

WHAT IS IT?

Disinfectant treatment for microorganisms (fungicidal, virucidal, bactericidal, and spore-inactivating), with a **strong oxidizing action on metals and chemical residues**.

Concentrated solution of stabilised chlorine dioxide, xanthan gum, and zeolite.

FEATURES

- LEAVES NO RESIDUES: IT IS FULLY BIODEGRADABLE
- VERY BROAD MICROBIOLOGICAL AND CHEMICAL SPECTRUM OF ACTION
- DOES NOT FORM HAZARDOUS MOLECULES
- DOES NOT PROMOTE RESISTANCE PHENOMENA

HOW DOES IT WORK?

The disinfecting and **oxidizing properties** are well established. It acts by attacking the **cell membranes** until they rupture, thereby destroying and killing the cell.



VINEYARD APPLICATION

BOTRYTIS, DOWNY MILDEW, POWDERY MILDEW, BLACK ROT

No phytotoxicity / No effects on phenotype or phenological stages

LOVE THE ENVIRONMENT AND YOUR GRAPES

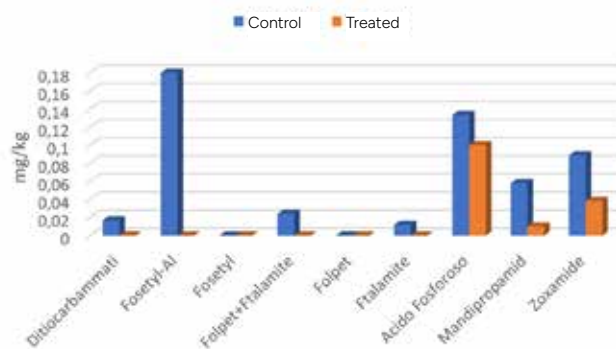
DRASTICALLY REDUCES

- PESTICIDES
- TOXINS
- METABOLITES
- OCHRATOXIN

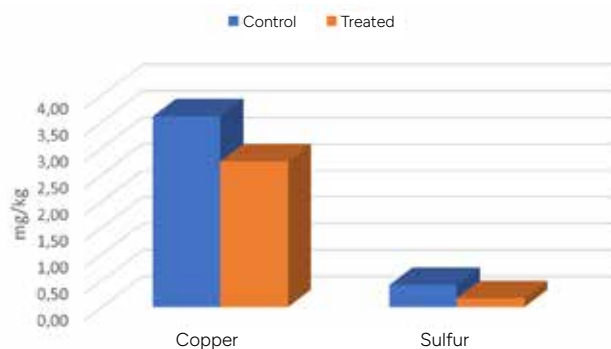


Elimination of multiple residues in conventional and organic farming through pre-harvest washing treatments.

Multi-residue removal



Sulfur and Copper Removal



PACKAGEING AND STORAGE CONDITIONS

IDROVITIS® is available in 10 L and 25 L containers. Store in a cool place, protected from light.



UNTREATED
CLUSTERS
WITHOUT IDROVITIS®



TREATED
CLUSTERS
WITH IDROVITIS®

INHIBITS THE ESCA DISEASE COMPLEX

PROGRESSIVE ISOLATIONS

This type of analysis makes it possible to understand how deeply pathogens are able to penetrate progressively into plant tissues. It also allows determination of whether the same pathogens are consistently present throughout sequential sections of the same tissue, or whether multiple pathogens coexist (synergistic pathogenic action).

Monte Vego Corvina: No significant difference was observed between Trichoderma and **IDROVITIS®**, indicating a similar effect on the Esca Disease Complex. However, unlike Trichoderma, **IDROVITIS®** does not inhibit beneficial microorganisms.

Altri casi: A significant difference was observed between **IDROVITIS®**-treated and untreated samples. **IDROVITIS®** reduced pathogen spread, and no Esca Disease Complex fungi were detected, even in deeper tissue layers.



HOW IS IT USED?

DOSE / 100 L WATER

1 Lt

2Lt

3Lt

0.5 L / 100 L water

65 ml / L water

SPRAYER WATER VOLUME APPLICATION

500–1000 L water/ha

200–300 L water/ha

0–200 L water/ha

Irrigation water

Equipment and machinery washing

		External → Internal				
		1 cm	2 cm	3 cm	4 cm	5 cm
A Monte Vego Corvina Idrovitis	Ap	Ap	Ap	Ap	Ap	Ap
	Ap	An	/	/	/	/
	/	/	/	/	/	/
	/	/	/	/	/	/
	Ap	Ap	Ap	Ap	Ap	Ap
B Monte Vego Corvina Trichoderma	Fus	/	/	/	El	/
	/	/	/	/	Np	/
	/	/	/	/	Np	/
	Pc	Ap	/	/	Fus	/
	/	/	/	/	/	/
C Falesco Cabernet TNT	Np + El	Ds	Ds + Np	Ds + Np	Ds + Np	Ds + Np
	Np + El	Ds + Np	Np	Pm	Pm	Pm
	Np	Ds	Np	Np + El	Np + Ds + El	Np + Ds + El
	Np	Pm	Pm	Np + El	Np + Fus	Np + Fus
	Np + El	Ds + Np	Np	Pc	Np	Np
D Falesco Cabernet Idrovitis	Np + El	Pc	Np + El	Pm	Np + Ds	Np + Ds
	Np + Ds	/	/	Np	Np	Np
	Ds	Ds	/	/	El	El
	Np + Ds	Np	Ds	/	/	/
	Np + El	Np	/	/	Np	Np
E Vivallis Idrovitis	Np	Np	Np	/	/	/
	Ds	Np + Ds	Ds	/	/	/
	Ds + El	Fus	Np	Np	/	/
	Np + Ds	Ds	Ds	Np + Ds	/	/
	Np + El	Ds	Np	/	/	/
	Np + El	Np	Ds	/	/	/
	El	Np	Np	Np	/	/
	Fus + Np	Np	Ds	Np	/	/

Legend:

Ap: Aureobasidium pullulans
An: Aspergillus niger

El: Eutypa lata
Pc: Phaemoniella chlamydospora
Fus: Fusarium sp.

Np: Neofusicoccum parvum
Ds: Diplodia seriata
Pm: Phaeoacremonium minimum



PURPOSE

Preventive treatments

Curative (rescue) treatments

Pre-harvest grape washing

Microbiological sanitation, biofilm removal

Microbiological sanitation, oxidation of contaminants

BENEFITS FOR THE FARM

- Acts directly on microorganisms and can be used in both preventive and curative programs.
- Very broad spectrum of action: simultaneously controls multiple critical issues.
- Leaves no residues: useful for complying with zero-residue guidelines and for protecting vineyards during pre-harvest intervals.
- Simultaneously reduces residues of plant protection products already applied.
- Very low cost per hectare.



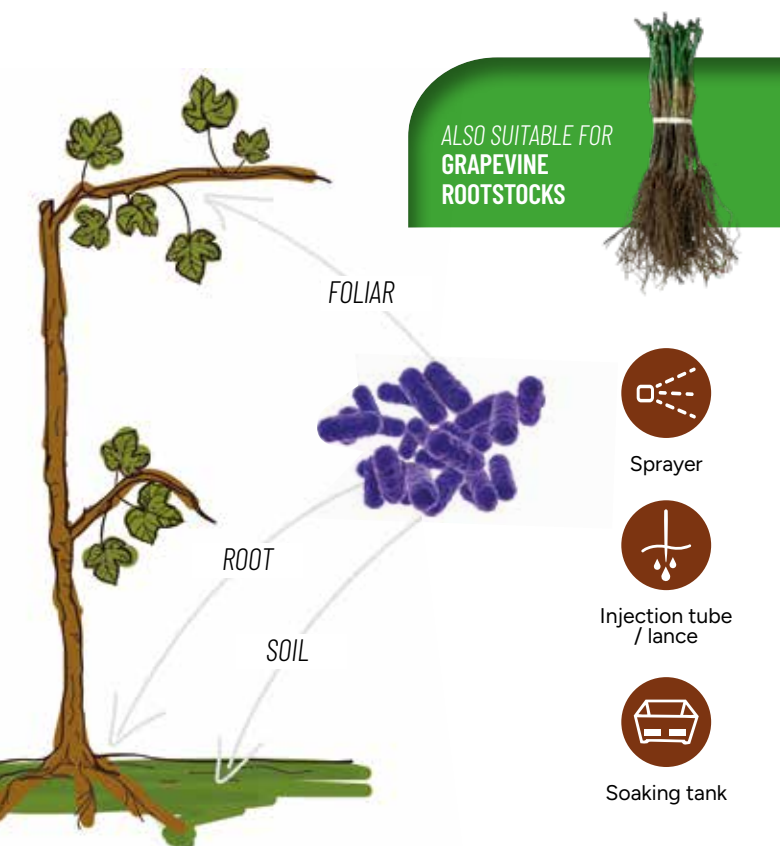
COMPARISON WITH OTHER PRODUCTS

- SYNTHETIC PRODUCTS:** Synthetic-origin fungicides acting mainly in a PREVENTIVE manner. The most widely used commercial formulations have high per-hectare costs, induce resistance, often fail to provide adequate protection during difficult seasons, and are being progressively withdrawn by the EU.
- NATURAL PRODUCTS:** Naturally derived fungicides acting mainly in a PREVENTIVE manner. The most common commercial formulations have lower per-hectare costs but generally provide lower efficacy.
- SO-CALLED "FAITH-BASED" PRODUCTS:** Lime, calcium and magnesium oxides, kaolin, potassium bicarbonate, metabisulfite, and similar products whose efficacy has not been scientifically demonstrated.

WHAT IS IT?

It is a blend of beneficial and effective microorganisms produced through a natural fermentation and proliferation process.

CONTAINS: *Bacillus subtilis*, *Bifidobacterium animalis*, *Bifidobacterium bifidum*, *Bifidobacterium longum*, *Lactobacillus acidophilus*, *Lactobacillus bulgaricus*, *Lactobacillus casei*, *Lactobacillus delbrueckii*, *Lactobacillus fermentum*, *Lactobacillus plantarum*, *Lactococcus diacetylactis*, *Lactococcus lactis*, *Rhodopseudomonas palustris*, *Saccharomyces Cerevisiae*, and *Streptococcus thermophilus*.



BENEFITS

- Promotes the development of naturally occurring beneficial microorganisms
- Helps establish a healthy microbial balance in both soil and plants
- Strengthens the plant immune system
- Acts as a barrier against pathogen colonization
- Improves soil mineralization processes
- Stimulates plant immune responses
- Enhances the uptake of nutrients naturally present in the soil
- Restores beneficial microbial communities after phytosanitary treatments
- Regulates pH
- Supports regrowth after frost damage

ECO-TOXICOLOGICAL PROFILE

All strains used are harmless, naturally present in the environment, and not genetically modified (Non-GMO).

QUALITY ASSURANCE

The product may be used in organic farming in accordance with EC Regulation 834/2007 and Article 3, Point 4, of EC Regulation 889/2008.

WHERE AND WHEN TO USE IT

Recommended for all plantations (grapevines, trees, and herbaceous crops) to promote faster and more vigorous plant development.

It can also be used on established crops to:

- Stimulate plant defense mechanisms and immune responses
- Limit the onset of diseases
- Restore the soil microbial community after phytosanitary treatments

For best results, combine with a good basal organic fertilization program.

CROP

DOSAGE

TREATMENTS

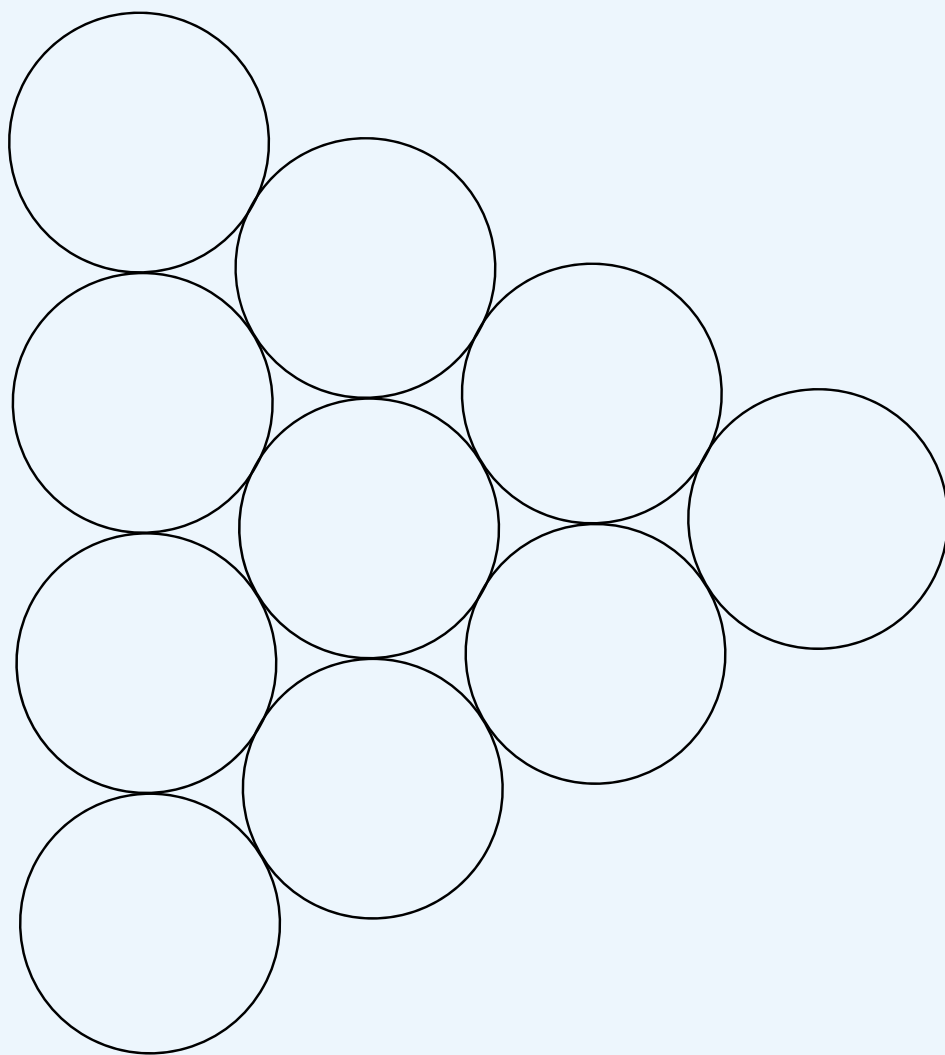
Wine grapes (new plantings and replacement vines)	10L/ha	7 treatments from March to the end of November, excluding August
	10% Next ProBio solution in water	Soak rootstocks before planting for up to 8 hours
	Soluzione di acqua e Next ProBio al 5%	After closing the planting hole, irrigate with 2.5 L of solution
Wine and table grapes	10L/ha	7 treatments from March to the end of November, excluding August; 5 treatments for table grapes
Pome fruits, stone fruits, citrus	10L/ha	4–6 treatments from March to the end of November, excluding August
Olive trees	10L/ha	4–6 treatments from March to the end of November, excluding August
Walnut and hazelnut	10L/ha	4–6 treatments from March to the end of November, excluding August
Vegetables	10% solution	At sowing
	5% solution	Every 15 days until harvest
Herbaceous crops (cereals)	30 L/ha	Throughout the crop cycle
Golf courses (turfgrass)	15 L/10,000 m ²	Once per month, excluding the hottest months

*For optimal performance, applications should be carried out using sprayers operating at pressures below 5 atm. Treatments are best applied early in the morning, late in the evening, or under cloudy conditions, avoiding direct sunlight, as the active microorganisms are sensitive to light exposure.

PACKAGING AND STORAGE CONDITIONS

Next ProBio® is available in 1 L bottles and 10 L or 25 L containers. To maintain product quality, store it in a cool, dark place at temperatures between 8°C and 18°C, avoiding refrigeration. Always reseal the container tightly after use. When properly stored, Next ProBio® maintains a pH below 3.5; the product should not be used if the pH rises above 4.0, as this may indicate a loss of quality and effectiveness.





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