



Polysorb
by Green Legacy

WATER RETAINING GRANULES

ADDED VALUE FOR YOUR
FRUIT GROWING

**THE SPECIALIST:
HIGH-PERFORMANCE
SUPERABSORBENT**

YOUR ADVANTAGES AT A GLANCE

AVOIDS DRYING STRESS

POLYSORB is a superabsorbent capable of storing up to 400 times its weight in water, enabling the bridging of long dry periods.

SAVES WATER AND FERTILIZER

Water and fertilizers are used more efficiently, allowing savings of up to 50 % on irrigation water and fertilizers.

LONG-LASTING EFFECT

The high water and nutrient storage capacity provides a long-term effect in the soil, lasting 3 to 5 years.

IMPROVES AND ACCELERATES GROWTH

POLYSORB promotes the healthy development of young plants and seedlings during early growth stages, especially during extended drought periods.

PRESERVES PLANT HEALTH

Supports the use of mycorrhizae and other beneficial microorganisms, reducing the need for plant protection agents.

FASTER AND HIGHER YIELDS

Promotes root growth and development of young plants, minimizing the risk of plant loss and increasing harvest yields.

IMPROVES SOIL STRUCTURE

Enhances soil porosity, aeration, and water infiltration, facilitating root growth and reducing water loss through surface runoff.

HIGHER MINERALIZATION RATES

Improves the mineralization rate of organic matter in the soil and the stability of soil aggregates.

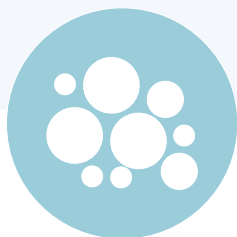
BIODEGRADABLE

POLYSORB is broken down over time by soil microorganisms.

EASY TO APPLY

Simple to apply either manually or with machinery.

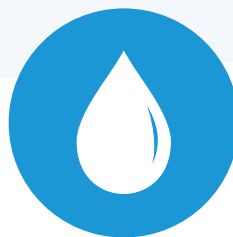




**GRANULES INTO
THE SOIL**



**EFFECTIVE FOR
3 TO 5 YEARS**



**SAVE UP TO
50% WATER**



MODE OF ACTION

POLYSORB is a superabsorbent capable of creating an additional reserve of water and nutrients in soils and substrates, which is available to plants.

POLYSORB can absorb up to 400 times its own weight. These reserves are available to plants even during extended dry periods, ensuring uninterrupted growth.

SIMPLE BUT EFFICIENT

POLYSORB can be used as dry granulate or pre-swollen granulate (for hydrogel preparation, see recommendations below). It is always applied in the root zone and not on the soil surface.

POLYSORB is a hydrogel that is suitable for both new plantings and existing plants, as well as for the production of seedlings in nurseries.

APPLICATION FOR NEW PLANTINGS

The method and the application amount vary depending on the planting technique used (manual or mechanical application), the size of the root ball, and the soil conditions.

MANUAL PLANTING

If using a ground auger or planting spade, the planting hole should be at least twice as wide as the root ball or bare roots, with a depth that is at least the height of the root ball plus an additional 10 cm.

Bare-root plants and smaller potted plants (root ball Ø < 12 cm)

Before planting, POLYSORB is applied by hand at the bottom of the hole and mixed well with the surrounding loose soil. The amount depends on the volume of loose soil at the bottom of the hole (at least 10 cm deep). The dosage is 2-3 grams of granulate per liter of soil or 300 - 450 ml of hydrogel per liter of soil.

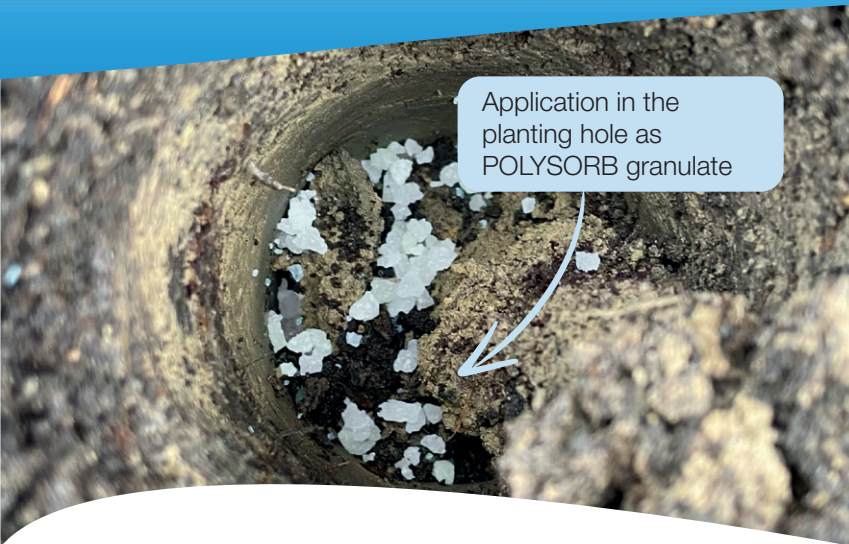
Larger potted plants (root ball Ø ≥ 12 cm)

For larger potted plants, POLYSORB is applied throughout the planting hole, except for a final top layer of 5 - 10 cm.

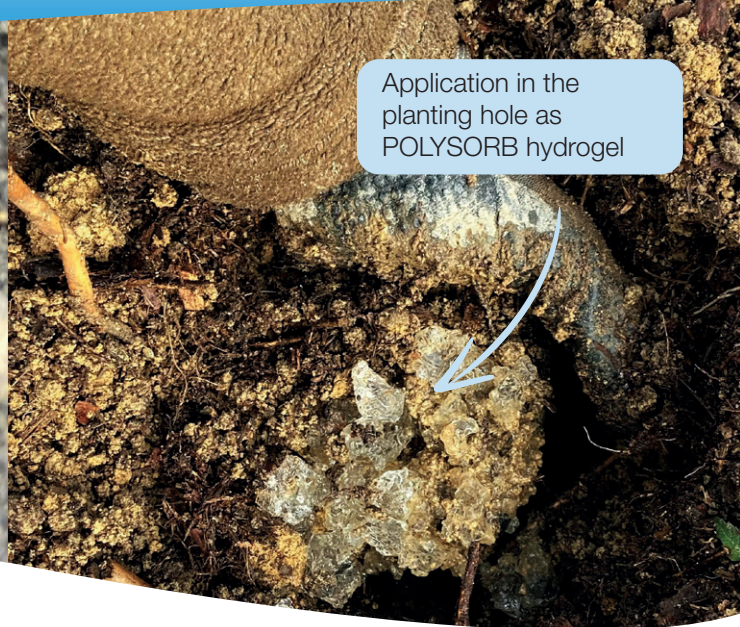
Any Type of Seedling

Regardless of the type of seedling, it is recommended to use a dose of 2 g to 3 g of granulate per liter of soil or 300 ml to 450 ml of hydrogel per liter of soil, except for the final top layer of 5 cm to 10 cm.

After planting the seedling and filling the planting hole with treated soil or substrate (taking into account the untreated final top layer of 5 cm to 10 cm), the planting area should be lightly compacted with the foot to avoid air pockets in the soil and ensure good root-to-soil contact.



Application in the planting hole as POLYSORB granulate



Application in the planting hole as POLYSORB hydrogel

If there is insufficient rainfall after planting, the treated area must be thoroughly watered to ensure that the granules fully swell upon first contact with water.

Preparation of the Hydrogel

To prepare the hydrogel, mix the POLYSORB granulate with clean water, stirring constantly and maintaining a ratio of 1 to 150 (1 kg of POLYSORB to 150 liters of water) until the granulate is fully swollen. For maximum swelling, it is recommended to carry out this process the evening before the planned application.

MECHANICAL PLANTING

Manual application before planting: The desired amount of POLYSORB granulate is spread by hand into the planting trench, immediately before the planting machine places the seedlings into the trench.

Automated application: The granules are automatically applied into the planting trench using a granule spreader, which is equipped with a dosing device mounted on the planting machine.

These methods allow for the even distribution of POLYSORB in the root area, ensuring optimal water retention and nutrient supply for the plants.

APPLICATION FOR EXISTING PLANTS

MANUAL PLANTING

To apply the product manually, dig two trenches by hand or with a plow, each 30 cm wide and 20 cm to 30 cm deep, on both sides of the plant row, perpendicular to the canopy edge. Then apply the product to the bottom of the trenches and fill them with soil. Lightly compact the soil with your foot and water the treated area thoroughly.

If a central drip irrigation system is in place, it is recommended to replace the central line with two lateral lines. The central water supply should be maintained for at least a month to allow the roots to adapt to the new water sources from the lateral drip lines.

Note: Dig carefully to avoid causing too much damage to the roots.

In existing orchards, POLYSORB can be applied in the form of dry granules or as hydrogel.

MECHANICAL PLANTING

Mechanical application in rows is carried out in late autumn during soil loosening, using a subsoiler with tines that are 20 cm to 30 cm deep.

The POLYSORB granulate is applied on both sides of the fruit trees, perpendicular to the canopy edge. The subsoiler tines should be equipped with trailing shares connected to pipes with a granulate spreader, which is mounted on the subsoiler.

Note: When using the subsoiler, a minimum distance of 30 cm from the tree trunks must be maintained. It is recommended to perform soil loosening every other maintenance cycle in the orchard within a year.



POLYSORB APPLICATION QUANTITIES

Recommended application rates in orchards for Central and Southern Europe. The dosage depends on the crop, the treated area, and the soil type.

The dosage of the hydrogel (pre-swollen granules) corresponds to 150 ml of hydrogel per 1 gram of granulate (see the method for preparing the hydrogel above).

| Crop ¹⁾ | New Planting: Planting and manual application of the granulate in the planting hole ²⁾ | Existing Plants: Manual or mechanical application in a trench or furrow 20–30 cm deep on both sides of the plant row ³⁾ |
|--------------------|--|---|
| Strawberries | 3 - 3,5 g / plant | Not applicable |
| Raspberries | 16 - 20 g / plant | Not applicable |
| Red currants | 16 - 20 g / plant | Not applicable |
| Black currants | 18 - 22 g / plant | Not applicable |
| Table grapes | 20 - 25 g / plant | 100 - 120 g / plant |
| Pome fruits | 30 - 38 g / plant | 130 - 160 g / plant |
| Stone fruits | 35 - 44 g / plant | 135 - 170 g / plant |
| Citrus fruits | 80 - 100 g / plant | 180 - 225 g / plant |
| Almond trees | 90 - 113 g / plant | 190 - 240 g / plant |
| Olive trees | 180 - 230 g / plant | 280 - 350 g / plant |

¹⁾ In sandy soils, a higher dosage is required compared to heavy soils. However, the maximum dosage of 3 g of POLYSORB per liter of filling soil must never be exceeded in the planting hole.
²⁾ In new, super-intensive crops with mechanical planting and continuous application in the planting trench, 30% more product should be used.
³⁾ In existing crops and with manual application in side trenches or mechanical application in side furrows, 30% more granulate should also be applied.

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