



# **Agricultural Superabsorbent Polymer**

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**Application Guide for Agriculture**

**Reduces watering frequency  
by up to 50%**

**Increases soil porosity**

**Reduces hydric stress**

**Reduces leaching & cuts fertilizer  
usage**

**Protects the environment against drought  
& groundwater pollution**





## Agriculture

**HYDROSORB™** products are environmentally safe potassium-based polyacrylamide crystals that have been specially designed for use in agriculture and horticulture.



**HYDROSORB™** products can be efficiently used in agriculture to reduce watering frequency. They are beneficial throughout the growth cycle of plants, especially in the areas of germination, growth enhancement, and root establishment. Each crystal absorbs up to 300 times its weight in water, keeping the soil moist for healthier plants.

**HYDROSORB™** products can reduce watering frequency by up to 50%, reducing time and money spent on irrigation labor and water costs. These polymers work by absorbing and storing water and nutrients in a gel form. These hydrogels help maintain a consistent moisture and nutrient balance in the root zone, thus reducing hydric stress which can slow plant growth.

**HYDROSORB™** lasts in the soil for up to 5 years and is compatible with the use of fertilizers and pesticides. MSDS and TDS available upon request.

**\*Please note: HYDROSORB™** holds fertilizer just as it holds water. Therefore, you must reduce your fertilizer usage by up to 50% to avoid burning your plants. Because every soil has different characteristics, finding the optimum fertilizer rate requires adjustment of your standard method of application. For sandy soil, be sure to request our **HYDROSORB™ 2001 F** when ordering.

### Directions for application of **HYDROSORB™ 2001 C or F** for alfalfa:

1. Broadcast the **HYDROSORB™** at a rate of 20-40 lb./acre.
2. Till into the soil at a depth of 4"-8" prior to planting.

### Directions for application of **HYDROSORB™ 2001 C or F** for vegetables:

1. Broadcast the **HYDROSORB™** at a rate of 20-40 lb./acre.
2. Till into the soil at a depth of 4"-8" prior to planting.  
Or  
Spread 7-14 lb./acre in a 14"-16" band.

### Directions for application of **HYDROSORB™ 2001 C or F** for grains:

1. Broadcast the **HYDROSORB™** at a rate of 20 lb./acre.
2. Till into the soil at a depth of 4"-8" prior to planting.  
Or  
Spread 1-2 lb./acre in a 1/2" band in the seed slice.

\*Water thoroughly to activate crystals, then reduce your watering frequency by up to 50%.

To place an order, for consulting, or for more information:  
**Hydrosorb, inc.™**  
Phone (714) 771-6040 • Fax (714) 771-1465  
sales@hydrosorb.com • [www.hydrosorb.com](http://www.hydrosorb.com)



Absorbs up to 300 times its weight in water.



## Frequently Asked Questions

**1. Q. How does HYDROSORB™ work?**

**A.** HYDROSORB™ releases its moisture into the soil through osmosis. The roots obtain moisture in the soil at a molecular level or by direct contact with the gels.

**2. Q. Are today's polymers better than those made 20 years ago?**

**A.** Yes. Polymers have changed a great deal since their introduction 20 years ago. The polymers we use today are made with stronger chemical components which make them longer lasting, able to withstand higher levels of soil pressure, and capable of absorbing larger quantities of water.

**3. Q. How long does HYDROSORB™ last?**

**A.** HYDROSORB™ remains effective in the soil for up to 5 years. Frequently tilled soils will biodegrade slightly faster. Extreme weather like desert heat and freezing temperatures will not affect the longevity of the product.

**4. Q. What eventually happens to HYDROSORB™? Is it safe for the environment?**

**A.** HYDROSORB™ will naturally biodegrade in the soil. HYDROSORB™, however, is not recommended for ingestion or inhalation, and therefore should be kept out of the reach of children.

**5. Q. Can I use too much HYDROSORB™?**

**A.** Yes. Too much HYDROSORB™ can actually raise soils. Be sure to follow application charts carefully.

**6. Q. Does HYDROSORB™ cause root rot?**

**A.** Yes, but **not** if you use the correct granule size. HYDROSORB™ gels actually improve soil aeration by making pockets in the soil. In cases of extreme rain, the gels will only absorb to their maximum capacity.

**7. Q. How does HYDROSORB™ work for different soil types?**

**A.** HYDROSORB™ is beneficial for all soil types. In

sandy soils it absorbs and stores water and in clay soils it improves soil porosity. HYDROSORB™ does not affect the soil's pH or microbiology. When selecting soils, be sure to invest in quality soils for maximum performance.

**8. Q. Do I need to reduce the amounts of fertilizer, pesticides and herbicides used when incorporating HYDROSORB™ into the soil?**

**A.** Yes! HYDROSORB™ stores nutrients, fertilizers, pesticides and herbicides rather than losing them to deep soil percolation, runoff or evaporation. Due to varying soil types – sandy, clay or loam – you must adjust dosage to your soil conditions. Call Hydrosorb, inc.™ for recommendations.

**9. Q. Does water quality affect HYDROSORB's™ performance?**

**A.** Yes. Minerals and salts in the water can decrease absorption rates. Water with high salt levels will require more product, as salt significantly diminishes the absorption capacity of HYDROSORB™.

**10. Q. Can HYDROSORB™ be applied to established plants and lawns?**

**A.** Yes. You must inject the crystals into the soil, down to the root zone, either by hand or with injection equipment. HYDROSORB™ is most effective when applied during initial planting or transplanting.

**11. Q. Does HYDROSORB™ have any effect on pests?**

**A.** No. HYDROSORB™ does not attract or repel pests.

**12. Q. Why buy from Hydrosorb, inc.™?**

**A.** Hydrosorb, inc.™ provides dependable, personalized service and technical expertise. We offer person-to-person communication and always return your calls. Our specialty is quality products at competitive prices.

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**Serving polymer customers for over 25 years!**