



**CrossOver**<sup>®</sup>  
FROM SOIL TO PLANT

**GIVING NURSERY CROPS  
WHAT THEY CRAVE.**

**CrossOver<sup>®</sup> Hort is a patented fertilizer offering highly available soluble silicon combined with calcium and magnesium. Its highly plant-available silicon formulation improves media structure and crosses over to enhance the plant's structural integrity and adaptive capacity to biotic and abiotic stress for season-long vigor.**

#### **IS PLANT-AVAILABLE SILICON MISSING FROM YOUR SOILLESS MIX?**

Soilless mixes for the horticulture market tend to develop low pH soil conditions. This subjects greenhouse, nursery and specialty plants to damage or weakness when challenged by environmental stresses. Crops are able to cope with these stresses, such as salinity, disease and metal toxicity, to a certain extent, but when exceeded, crops become vulnerable – causing problems for growers. CrossOver Hort provides high amounts of plant-available silicon in the form monosilicic acid, providing comprehensive solutions to correct chemical imbalances, nutrient deficiencies and metal toxicities associated with salt and pH problems in greenhouse and container media.

#### **PROMOTING BALANCED NUTRIENT AVAILABILITY**

CrossOver Hort proprietary formula contains plant-available silicon, calcium and magnesium, which aid in nutrient mineralization and enhance media CEC. As a multifaceted media amendment, CrossOver Hort modulates the uptake of NPK and reduces sodium uptake under saline and sodic media conditions. CrossOver also improves media pH balance and nutrient retention.

## The CrossOver Power Benefits



**IMPROVES**  
soil structure



**ENHANCES**  
soil stability



**HELPS PREVENT**  
metal toxicity



**INCREASES**  
phos availability



**HELPS PREVENT**  
sodium toxicity



**IMPROVES**  
nutrient efficiency



**INCREASES**  
photosynthesis



**ELEVATES**  
stress tolerance

**Boost your plants’ natural defenses with CrossOver Hort’s proprietary formula containing plant-available silicon, calcium and magnesium.**

Plant vulnerability to environmental stresses is a major problem for horticultural managers. Silicon is known to effectively mitigate these stressors, and many greenhouse, nursery and specialty crops have a predisposition to uptake and use silicon. CrossOver’s plant-available silicon plays a key role in activating processes that enhance the efficiency and effectiveness of plant response systems under stressful conditions to improve growth and recovery and maximize transplant quality.

**CrossOver Hort’s SOLUBLE SILICON FORMULATION PROVIDES BENEFITS TO HORTICULTURE**

Crops face many stress factors that can inhibit growth. With CrossOver Hort, silicon can be incorporated into soilless mixes as a dried powder formulation throughout the growth stages. A pelletized formulation is preferable in container nurseries where soil is mixed.

**Bedding plants** – Stock bedding plant mixes can be amended with CrossOver Hort prior to planting to enhance the ability of young plants to tolerate environmental stress.

**Nursery** – When nurseries transplant developing stock into larger containers to provide various sizes for the marketplace, the trees or shrubs are subject to stress. Plants grown in field nurseries are also subject to stresses and poor soil conditions.

**Vegetable transplants** – Yield potential is in direct association with the survivability of young transplants to transplant shock and other environmental stresses. Silicon strengthens plant tolerance to stress encountered during early establishment and growth stages, yet silicon is missing in all vegetable transplant mixes.

**PRODUCT OFFERING AND DIRECTIONS FOR USE**

CrossOver Hort and CrossOver G Hort (Gypsum enhanced) are available as a powder for soilless mixes and 100 SGN, 50-pound bags or 2,000-pound totes. CrossOver can be applied to the soil medium or soilless mixes in container stock, as well as in base soil for horticultural field crops.

Apply at 6-10 pounds per cubic yard.

**TYPICAL ANALYSIS**

Chemical Composition (%)

Calcium	25.7%	Soluble Silicon (H <sub>4</sub> SiO <sub>4</sub> – Plant-Available Silicon)	2.1%
Magnesium	6.5%	Silicon Dioxide (SiO <sub>2</sub> )	21.3%



Add CrossOver to your soilless mixes to improve nutrient availability and efficiency and boost natural plant defenses. **Learn more at [CrossOver-Silicon.com](http://CrossOver-Silicon.com)**