

IMPROVE TRANSPLANT ESTABLISHMENT



Surround®
Agricultural Crop Protectant

Improve Transplant Establishment

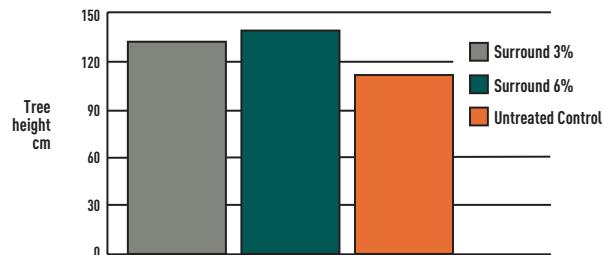
Successful transplanting of annual vegetables or permanent crops such as trees, vines and ornamental plants can depend on a number of factors such as plant type, quality of nursery plants, field preparation, handling during the planting process and environmental factors. The plant's ability to regenerate roots that are damaged during transplanting and its return to normal growth can be greatly impacted by water stress, especially when the new environment is one of greater light intensity and higher heat.

Nursery plants are often grown in closely planted beds and flats where growing conditions are optimized. These close nursery plantings often provide some shade for the individual plants, creating a microclimate of less light penetration and higher humidity. Once planted in an open field where they are susceptible to full sunlight, wind and less humidity, transplants often suffer from "transplant shock." Even when transplants are properly "hardened-off," the additional sunlight intensity can, under high-heat conditions, often delay establishment.

Surround® Agricultural Crop Protectant provides a proven solution to these environmental factors that contribute to transplant shock. The kaolin particles in SURROUND reflect the damaging infrared and ultraviolet radiation that increases plant surface temperatures. A cooler plant surface reduces heat stress and sunburn, improves transplant establishment and improves the efficiency of water used during the transplanting period. And, unlike anti-transpirant type products, SURROUND does not block leaf stomata, allowing the plant to continue its photosynthetic processes and achieve the maximum root regeneration possible.

Suppress Insect Pests and Protect Plants From Wildlife Feeding Damage

SURROUND is an EPA-registered and OMRI-approved product that suppresses certain insect pests that feed on newly transplanted crops and can reduce stand establishment.



Effect of biweekly SURROUND particle film applications on transplanted citrus trees (Valencia/Carrizo). Trees planted March 1999 at Ft. Pierce, FL; Growth data collected January 2001.



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For ornamental plants, SURROUND has shown effective suppression of feeding from deer and rabbits that can impact the establishment of young transplants.

The Benefits of Protecting Your Transplants With SURROUND

- Faster plant establishment
- Fewer replants
- Suppression of insects and wildlife feeding, and
- Quicker establishment can mean earlier production, potentially providing an opportunity to take advantage of earlier market prices

Recommendations for Transplants

Apply SURROUND WP to new transplants in the field to reduce transplant shock and heat stress. Re-apply SURROUND every 5-7 days depending on rainfall/irrigation, plant growth and type of crop. Emerging green tissue should be protected from sunburn and heat stress.

Concentration: Use at 6.25 to 37.5 pounds (depending on transplant size and crop) of SURROUND WP per acre in sufficient water for complete coverage. Small seedlings will need less water and a lower amount of SURROUND applied in a band spray. Adjust the volume of water, spray nozzle positioning and rate used for larger, more mature plants to uniformly coat plant surfaces.

Application Tips:

- Avoid foliage run-off. Apply to achieve near-drip coverage.
Surfactants may improve spreading.
- Best results are usually achieved at 37.5 pounds per 100 gallons of water.
- Consult the specimen label for instructions on aerial application.
- SURROUND can be applied with most other insecticides, miticides and fungicides.
See SURROUND Spray Guide for more information on application techniques.
- Do not apply SURROUND through any type of overhead irrigation system.
- Do not dip transplants into SURROUND solution.

Important: Always read the label before buying and follow label instructions when using this product.

The use of Surround® in agricultural crop protection may be covered by patents held by Tessenderlo Kerley, Inc. For more information, visit novasource.com.

WARRANTY AND LIMITATION OF DAMAGES

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