

Surround[®]

Crop Protectant

Improve Transplant Establishment

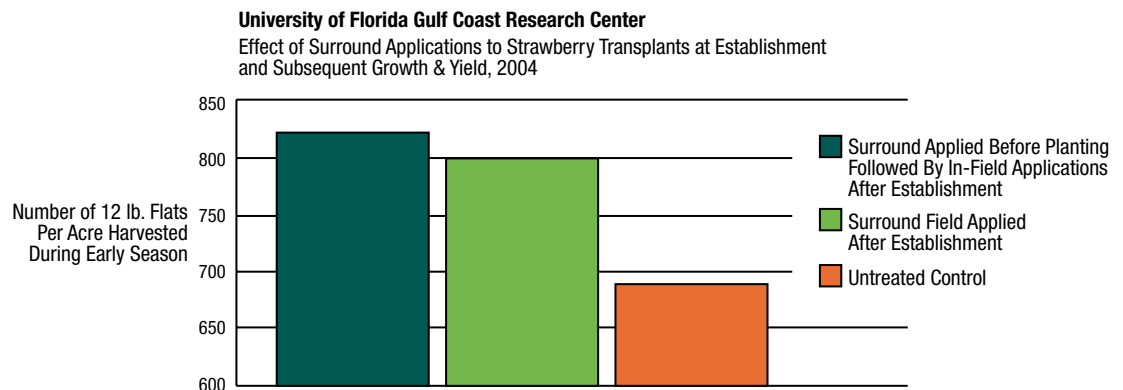
Successful transplanting of strawberry plants can depend on a number of factors such as plant type, quality of nursery plants, field preparation, handling during the planting process and environmental factors. The plant's ability to regenerate roots that are damaged during transplanting and its return 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 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.

Two University of Florida Research Studies Show Effectiveness

Preliminary and ongoing research conducted in 2008 at the University of Florida indicates strawberries sprayed with Surround at the time of transplant, post-transplant and after establishment showed less water usage during the establishment phase of the crop.* In 2004, researchers found Surround-treated strawberry transplants resulted in more fruits harvested during the early season harvest period.* (See chart.)



* Results may vary depending on environmental conditions. For a copy of results or for more information, e-mail us at info-novasource@tkinet.com.

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The Benefits of Protecting Your Transplants With Surround

- Faster plant establishment and fewer replants;
- Better water use efficiency;
- Suppression of insects; 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 and plant growth. Emerging green tissue should be protected from sunburn and heat stress.

Concentration: Use at 25-50 lbs per 100 gallons of water of Surround WP per acre in sufficient water for complete coverage. Small transplants will need less water and a lower amount of Surround than larger or more mature plants to uniformly coat plant surfaces. Surround may be applied in a band spray. Adjust the band width to provide full coverage and adjust the volume of water based on plant size. Do not apply once fruit appears.

Application Tips:

- The cosmetic residue of Surround on strawberry fruit is not easily washed off by irrigation, rain or packing house washes. Do not use Surround when fruit is present on the plant.
- Avoid foliage run-off. Apply the spray volume that will achieve near-drip coverage.
- Best results are usually achieved at 37.5 lbs per 100 gallons of water.
- Surfactants may improve spreading.
- Consult the specimen label for instructions on aerial application.
- See Surround Spray Guide for more information on application techniques.
- Surround can be applied with most other insecticides, miticides and fungicides. Conduct a compatibility test to ensure tank-mix compatibility.
- Do not apply Surround through any type of overhead irrigation system.
- Do not dip transplants into Surround solution.

For more information on Surround, visit www.novasource.com.

Important: Always read the label before buying and follow label instructions when using this product. The use of Surround in agricultural crop protection applications is covered by US Patents 6,027,740; 6,069,112; 6,110,867 and 6,156,327.

CONDITIONS OF SALE – LIMITED WARRANTY AND LIMITATIONS OF LIABILITY AND REMEDIES

Failure to strictly follow label directions may cause injury to crops, animals, man or the environment. Tessenderlo Kerley, Inc. (TKI) warrants that the product conforms to the chemical description on the label and is reasonably fit for the purpose referred to in the directions for use when properly applied in normal weather conditions. TKI makes no other warranty or representation of any kind, express or implied, concerning the product, including no implied warranty of merchantability or fitness for any particular purpose. The exclusive remedy against TKI for any cause of action relating to the handling or use of the product is a claim for actual out-of-pocket damages, and in no event shall TKI be liable for special, indirect, incidental or consequential damages or expense of any nature, including, but not limited to, loss of profits or income, whether or not based on the negligence of TKI, breach of warranty, strict liability in tort, or any other cause of action. TKI and the seller offer the product, and the buyer and users accept it, subject to the foregoing conditions of sale and limitations of warranty, liability and remedies.

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