# Anti-Stress 550 N



ANTI-STRESS 550® is a blend of non-toxic, water soluble polymers that can minimize the damage of climate related stress. Applied as a biodegradable foliar spray, Anti-Stress 550<sub>®</sub> provides a unique semipermeable membrane on the leaf surface. Anti-Stress 550® can reduce the effects of excessive heat, drought, drying winds, rapid changes, transplant weather shock, frost and freeze. During its 30 to 60 day active cycle, this elastic dramatically reduces transpiration and does not interfere with normal stomatic activities or photosynthesis.

A significant benefit of applying Anti-Stress 550® is the savings of water within the plant canopy. An application provides a coating which assists the plant to maintain a more consistent moisture level in the plant cells under the following stressful conditions:

#### FROST AND FREEZE

Give your plants an extra 4° - 6°F buffer against damaging cold. By retaining higher moisture within the plant cells and by providing a physical barrier between sensitive plant tissue and ice crystal formations, Anti-Stress 550<sub>®</sub> effectively reduces frost and freeze danger for tropicals, ornamentals, vegetables, trees, vines, and bloom & buds.





### **HEAT / SUNBURN**

Heat related damage occurs when leaves transpire more rapidly than the roots can uptake water. As the water content of the plant cells is reduced the dehydration of cells in leaves, flower and fruit leads to wilting, sunburn and a reduction in plant growth. The Anti-Stress 550® membrane reduces the transpirational loss rate which helps reduce the negative effects of high heat and intense sunlight.

#### TRANSPLANT SHOCK / PLANTING

The Anti-Stress 550® membrane will lessen the impact of low humidity, greater temperature variation, and wind when plants are removed from ideal growing conditions. Transplant shock often occurs when the root system of a planted specimen adequately supply its water needs. The time necessary for a plant to overcome this condition can result in lost growth potential, reduced survival rates and long term physiological damage. Treating well watered plants prior to transplanting or at the time of planting will increase the retention of water in the canopy of the plant. This retention improves the water balance and results in less stress and improved genetic expression.

## **DRYING WINDS**

Hot and cold winds pull moisture from plant cells. As moisture is reduced, the plant becomes susceptible to damage. Anti-Stress 550® forms a barrier against these conditions.

#### **SOIL MOISTURE VARIATIONS**

The drying of soil caused by heat, wind, light soil or irrigation intervals can cause plant stress. Plants treated with Anti-Stress 550® will take more time to develop wilt conditions than untreated plants. Often irrigation can be reduced by up to 30%.



SHIPPING: By assisting in moisture retention, Anti-Stress 550® reduce losses due to shipping.



The effectiveness of Anti-Stress 550® depends on the concentration of the product to water (dilution rate) and coverage of the leaf surface. Best results will likely be obtained when Anti-Stress 550<sub>®</sub> is applied 24 to 48 hours before the stress of heat, wind, frost/freeze, transplant shock or reduced irrigation occurs. If not possible to apply within this time frame, good results may be obtained as soon as the spray is dry. Anti-Stress 550® does not require registration by the EPA or special permits to apply.

Request Anti-Stress 550<sub>®</sub> by name from your local Ag Retailer

# **APPLICATION RATES for Anti-Stress 550**®

PLANT	PARTS WATER	PARTS ANTI- STRESS	PERCENT OF ANTI-STRESS IN WATER	APPLICATION	
BAREROOT					
Fruit & Nut Trees, Roses	0 - 2	1	Full Strength - 33%	To reduce dry-out, as an alternative for wax.	
BEDDING PLANTS					
Flowering and Vegetable	20	1	4.8%	Before shipping and transplanting. Before frost and freeze danger. Before exposure to drought and extensive heat.	
DI COMTNIC DI ANTO					
Potted Floral,					
Holiday, Color,				Lessen premature dry-out. May extend blooming	
Poinsettias, Begonias,	40	1	2.4%	time. Prior to shipping.	
Chrysanthemum, etc.				time. That to simpping.	
em ysanenemam, etci					
CHRISTMAS TREES					
Seedlings	20	1	4.8%		
Container Grown	30	1	3.2%	Transplanting. Preserve freshness. Reduce	
Field Grown	30	1	3.2%	needle drop. Reduce premature dry-out.	
Cut Greens	20	1	4.8%		
EVERGREEN			2.20/		
Citrus	30	1	3.2%	Before frost and freeze danger. Before exposure	
Ornamentals	30	1	3.2%	to drought and extensive heat.	
GROUND COVERS					
All Varieties	30	1	3.2%	Prior to shipping.	
7 iii Varieties	30	1	312 /0	Thor to shipping.	
PALMS					
Container Grown	30	1	3.2%	To lessen wind damage and browning of tips.	
Field Grown	30	1	3.2%	To lesself will damage and browning of tips.	
ROSES					
Container Grown	30	1	3.2%	For grafting and shipping. Before frost and	
Field Grown	30 0 <b>-</b> 2	1	3.2%	freeze danger.	
Bareroot Dormant Potted	0 - 2	1	Full Strength - 33% Full Strength - 33%	Before exposure to drought and extensive heat.  As an alternative for wax.	
Dominant Potted	0 - 2	1	ruli Strength - 33%	As all alternative for wax.	
SCULPTURED PLANTS					
Bonsai	30	1	3.2%	Defense has a sale ation - After twice as in a	
Topiary	30	1	3.2%	Before transplanting. After trimming.	
TREES					
	20	4	2.20/	Before frost and freeze danger. Before exposure	
Container Grown	30	1	3.2%	to drought and extensive heat. For shipping.	
Field Grown	30	1	3.2%	Before transplanting.	
TROPICALS					
Outdoor	20	1	4.8%	District Contract C	
Indoor	30	1	3.2%	Prior to frost and freeze danger. Reduce wind	
Low Light/Shade	40	1	2.4%	damage. Plant shine. Extend maintenance cycle.	
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TURF GRASS					
Plugs/Sprigs	20	1	4.8%	Before cutting sod for harvest. For premature	
Sod	20	1	4.8%	dry-out. Extend shelf life.	

20: 1 / 4.8%		30:1 /	′ 3.2%	40:1 /2.4%	
Gallons of Water	Volume of Anti-Stress 550®	Gallons of Water	Volume of Anti-Stress 550®	Gallons of Water	Volume of Anti-Stress 550®
1	6.4 oz.	1	4.25 oz.	1	3.2 oz.
5	32 oz.	5	21.3 oz.	5	16 oz.
20	1 Gallon	20	85.25 oz.	20	0.5 Gallons
100	5 Gallons	100	3.33 Gallons	100	2.5 Gallons