IT EN ES FR

ScudoTherm

ANTITRANSPIRANT
WATER EXCHANGES REGULATOR

agridæus
life for agriculture

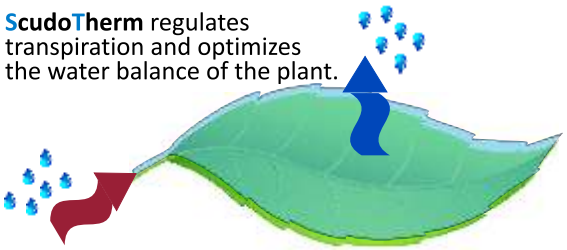
Functioning

Spring frosts are characterized by a progressive dehydration of the cells, with the aim to decrease the freezing point, and by the production of abscissic acid that blocks the closure of the stomata. The sudden thermal shock between night and day (often associated with wind), causes an **excess of transpiration** compared to the absorption capacity of the roots in the still cold ground. In this situation **burns** occur.

Regulates transpiration when thermal stress occur, prevents plant dehydration both with high and low temperatures.

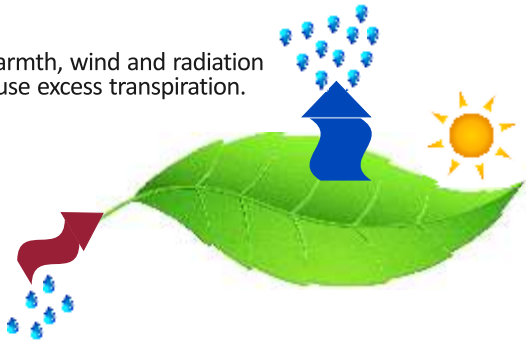
High summer temperature, **wind** and **solar irradiation** increase transpiration over the absorption capacity of the roots. First there is a prograssive **drying**, **dehydration** of the cells and the oxidation of the compounds present in the vacuoles which cause unwanted **browning**, up to the possible appearance of burns.

ScudoTherm regulates transpiration and optimizes the water balance of the plant.

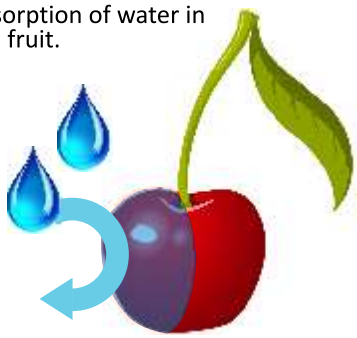


Iin case of freezing, the roots are not able to compensate the water lost by transpiration.

Warmth, wind and radiation cause excess transpiration.



ScudoTherm limits the absorption of water in the fruit.



Without protection the excessive absorption of water causes the splitting of the fruit.

Cracking phenomena in the ripening phase and near the harvest are caused by an anomalous absorption of water by the epidermis of the fruits, due to an excessive water availability due to **rain** or high humidity. Excess water causes an abnormal enlargement and consequent collapse of the membranes and cell walls.

Prevents fruit cracking.

ScudoTherm favors the sliding of water limiting absorption, prevents splitting and reduces drying times of the fruits with undoubted advantages in terms of **quality**.

Efficacy

Minimum and **Maximun** Critical lethal temperatures of the main crops.

	Minimum	Maximun
Actinidia	4°	30°
Almond tree	2°	30°
Apple tree	-10°	30°
Apricot tree	6°	30°
Broccoli	-1°	32°
Cabbage	5°	28°
Cherry tree	2°	30°
Citrus fruit	1°	40°
Cucumber	6°	33°
Curly endive	-2°	32°
Escarole endive	-7°	35°
Grapevine	-5°	32°
Lettuce	-2°	33°
Peach tree	2°	34°
Pear tree	-7°	30°
Pepper	0°	32°
Potato	2°	30°
Pumpkin	0°	30°
Strawberry	-12°	30°
Sunflower	10°	35°
Table grapes	0°	30°
Tomatoes	0°	38°
Watermelon	2°	35°
Zucchini	7°	36°

Advantages

Improves the engraftment of herbaceous grafts, its antitranspirant action avoids the loss of water and essential nutrients in a delicate phase such as grafting.

Improves the implantation of transplanted plants, its antitranspirant action avoids the loss of water and essential nutrients in a delicate phase such as transplanting.

Improves the shelf-life of cut flowers avoiding early post-cutting wilting.

Burns on Citrus fruit

SPAIN - 2015
Dose: 1.0 L/hl.
Results:
reduction of over 90% of burns.

Cracking on Cherry tree

ITALY - Bari - 2013/2014
Dose: 1.2 L/hl, 24 hours before the rain.
Results:
ScudoTherm: cracking only in 5% of the fruits.
Control: cracking in 50% of the fruits.

Results after only one treatment.

Excess of transpiration on Melon

SPAIN - 2015
Dose: 1.0 L/hl for 2 treatments.
Results:
40% reduction of irrigation water; reduction of more than 90% of the presence of radical and collar rot.

Spirng frosts on Cherry/Grapevine

ITALY - Bari - 2013
Dose: 1.2 L/hl 24 hours before the frost.
Results:
more than 95% of healty flowers.

ITALY - Verona - 2017
Dose: 1.5 L/hl 24 before the frost.
Results:
damage reduction of over 70%.

Applications

Spring frosts protection: **1.2-2.0%** solution (min. 3.5 L/ha).

Cracking reduction: **1.0-1.5%** solution (min. 5.0 L/ha) before the rains.

Protection against burns: **1.0-1.5%** solution (min. 5.0 L/ha).

Post transplant stress: **2.0-2.5%** solution; apply 24 h prima before transplanting.

Herbaceous grafts: **2.0-2.5%** solution; apply on mother plants 24 h before cutting.

Physiopathologies: **2.0-2.5%** solution; in times of susceptibility of the plant.

Shelf-life of cut flowers: **1.5-2.0%** solution; apply 24 h before cutting.

* Product usable on all crops, also in arboriculture and ornamental plants in urban environment and sensitive areas.

Apply 24/36 hours before the atmospheric event

Effective for 10/15 days on treated parts

Degradable copolymer

•COMPOSITION
Organic polymer 45%

•ANALYSIS
pH: 5.0 - 7.0
Viscosity: 20-300 mPas
Density: 1.05 g/ml
Colour: White

• **FORMULATION**: Liquid

• **LABELLING**:Technical product.

• **PACKAGING**: 1 L Bottle (Box 20 pz); 5 L Tank (Box 4 pz); 20 L Tank.

• **STORAGE & HANDLING**: Store in a cool and dry place, keep away from direct sunlight. Store at temperatures between 5° and 35°C (41°- 95°F). Do not mix in advance and do not store in a diluted form.