

FLOW SHADE®

Against leaf and fruit sunburn



Sunburn-related damage can cause losses until 60% of the entire production. Predisposing conditions are intense solar radiation, high temperatures, low relative air humidity and water stress conditions. Sunburn-related damage also occurs when there is a sudden change in climatic conditions, i.e. from fresh and shaded to hot and sunny, an increasingly frequent phenomenon in temperate regions.

The main cause of damage lies in the radiations falling within the ultraviolet (UV) spectrum, which cause the death of plant cells exposed to radiation and the necrosis of the tissues.

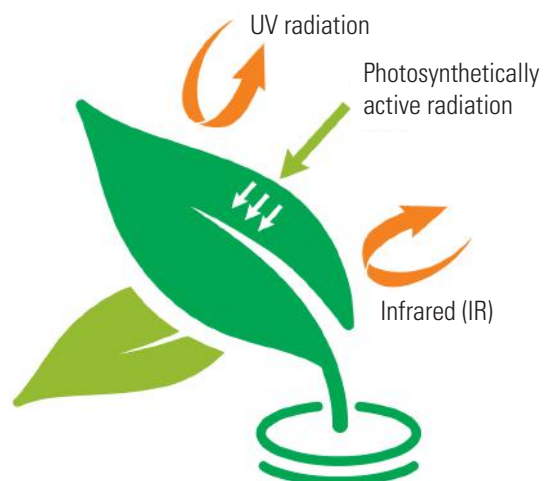
FLOW SHADE is the Agriges solution based on calcium carbonate with a flowable formulation that, applied by foliar:

- ✔ counteracts and reduces damage caused by solar radiation;
- ✔ reflects UV and Infrared (IR) rays;
- ✔ has no negative effects on the crop photosynthetic activity;
- ✔ increases the efficiency of water use;
- ✔ improves the crop health condition.

HOW IT WORKS

FLOW SHADE counteracts sunburn by reflecting harmful solar radiation and lowering the surface temperature of leaves and fruits, but does not reduce the photosynthetic activity of the plant. In fact, at high temperatures, leaf stomata close and, consequently, the photosynthetic activity is interrupted. The superficial temperature reduction induced by FLOW SHADE allows the stomata to stay open and, thereby enabling the normal continuation of the photosynthetic activity even at high temperatures.

By avoiding sunburn-related damage, which creates preferential pathways for pathogenic organisms, FLOW SHADE also improves the health and well-being of the plant.

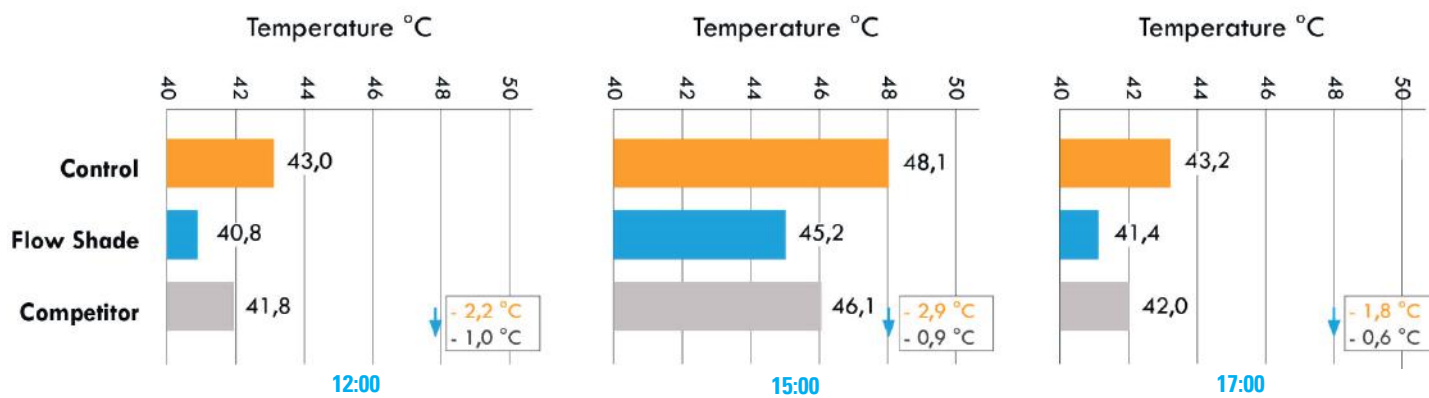


FIELD RESULTS



Apple tree, comparison between Control and not treated with FLOW SHADE Pumpkin, comparison between Control and not treated with FLOW SHADE

EXPERIMENTAL RESULTS



Average values of leaf surface temperatures detected at 12:00, 15:00 and 17:00.

FLOW SHADE presents a **flowable formulation** that is easy to mix and apply.

- ✔ Is stable
- ✔ Dries quickly
- ✔ Creates a protective and persistent film on treated surfaces
- ✔ Is neither abrasive nor clogs the equipment
- ✔ Does not obstruct stomata
- ✔ Can be removed during the normal post-harvest cleaning operations.

COMPOSITION

	w/w	w/v		
Calcium (CaO) total	26,0 %	41,3 %	Neutralizing value	36

%w/w equivalent to %w/v at 20°C.

DOSES AND ADMINISTRATION

CROPS	FOLIAR APPLICATION	Dose (l/ha)
Fruit tree (Apple, Citrus, Pomegranate)	Starting from fruit swelling and in case of water stress and high temperatures	1,5 - 2,0
Horticultural crops (Melon, Pumpkin, Watermelon, Sweet pepper)	Transplantation, to be repeated within 1-2 weeks	1,0 - 2,0
	Starting from fruit swelling and in case of water stress and high temperatures	1,5 - 2,0
Industrial crops (tomato)	Transplantation, to be repeated within 1-2 weeks	1,0 - 2,0
	Starting from fruit swelling and case of water stress and high temperatures	1,5 - 2,0

Formulation: flowable - **Package:** 1 - 5 - 10 - 20 l - **pH (sol. 6%):** approx. 7,9 - **Conductivity (sol. 10%):** approx. 2,7 dS/m - **Density (T=20°C):** approx. 1590 kg/m³.



Foliar application



Allowed in Organic farming



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Certified company

ISO 9001/2008
ISO 14001/2004
BS OHSAS 18001/2007

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