

# ReduSystems®

*The bright side of growing*



## SPECIALTIES

Where innovations see the light

[www.redusystems.com](http://www.redusystems.com)



# ReduFlex<sup>®</sup> GREEN

## A new coating in development



### What is ReduFlex Green?

ReduFlex Green is a photo-selective coating that reduces the levels of green and yellow light in greenhouses. It substantially reflects this part of the grow-light that some crops use less efficiently for photo-synthesis. Reflecting the excess energy in the grow-light and the infrared radiation should reduce greenhouse temperatures.

### Properties

- High reflection of green and yellow light
- Lowers greenhouse temperatures through high reflection of infrared radiation
- Relatively more radiation from blue and red light
- Lower plant and greenhouse temperatures
- Highly wear-resistant
- Suitable for glass, acrylate, polycarbonate and plastic film
- Easy to remove with ReduClean

### Application

ReduFlex Green is in development. Currently a variety of tests are done in various crops. Contact Mardenkro for more information or if you would like to participate in a trial.

### How to apply

For the best results, ReduFlex Green should be diluted with a certain amount of clean water (depending on the application method) and sprayed evenly on a dry and clean greenhouse roof. The best layer is obtained when sprayed by machine. The table below shows the number of buckets required and the effect on the greenhouse climate.

### How to remove

ReduFlex Green is easy to remove. Spray at least 250 litres of ReduClean per hectare, diluted with 5-7 parts of clean water, evenly on the desired roof area. (26 US gallon/acre)

Only apply when the roof surface is dry but rainfall is expected in the next few days. The rain will wash of the ReduFlex Green layer.

**For more information see**  
[www.redusystems.com](http://www.redusystems.com)

Per ha / acre	Heat reflection	Grow-light reflection (PAR)	Blue	Green	Red	Wear resistance
Buckets 22 / 9	++++	++++	+++++	+++++	+++++	++++
Buckets 18 / 7	++++	++++	+++++	+++++	+++++	++++

# ReduSystems®

ReduSystems is the name of a group of removable coatings that gives the grower more control over their greenhouse climate. ReduSystems coatings are sprayed onto greenhouse roofs and are weather-resistant for the entire season. ReduSystems coatings can be removed at any time with ReduClean.

As no two situations are the same, ReduSystems prides itself on providing growers anywhere in the world with the solution they need. ReduSystems consists of three product lines:

## SHADING

### Effective protection against excess heat and/or light

Coatings that lower crop and greenhouse temperatures by reflecting heat-generating infrared light. The amount of grow-light that is transmitted depends on the choice of product.

## DIFFUSION

### Maximum light diffusion with minimum grow-light loss

Coatings that allow maximum sunlight diffusion, while maintaining high levels of grow-light transmission. The amount of heat radiation (infrared) that is reflected depends on the choice of product.

## SPECIALTIES

### Where innovations see the light

In the Mardenkro laboratory, new products are continuously developed in association with leading international research institutes, universities and growers. The specialties group consist of coatings designed for specific crops or climatic conditions. It also includes innovations that are to be tested further for efficacy in various crops.



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