

# LIQUID SHADING TO PROTECT YOUR GREENHOUSE CROP

## WHAT IS LIQUID SHADING?

Liquid shading is a coating that is applied annually on the greenhouse roof/cover to protect your crop in spring or summer when light intensity gets too high. The coating reduces the temperature in the greenhouse by reflecting light and/or heat and improves the greenhouse climate during warm periods. Coatings can be easily removed at the end of the season to allow maximum light levels in the winter.



## WHAT ARE THE BENEFITS OF USING SHADING COATINGS?

### Benefits of using coatings:

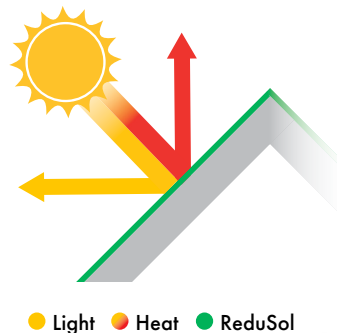
- Easy to use: you only have to mix the coating from the bucket with water and spray in on your greenhouse.
- Flexible to use: apply and remove the shading coating whenever you want.
- Coatings reduce the amount of light and the greenhouse temperature which is beneficial for both the crop and the people working in the greenhouse.
- With a moveable screen the light and heat still gets into the greenhouse, while coatings keep the excess light and heat outside the greenhouse.
- with a partly closed screen, part of crop is getting full light and part is getting less light (shadow). Coatings always ensure for even light distribution in the greenhouse. In addition, a grower needs less screening time.

## WHAT LIGHT DO YOU NEED IN YOUR GREENHOUSE?

### I WANT LESS LIGHT AND HEAT

ReduSol is a liquid shading agent that shades the greenhouse light and heat. The coating protects against excess stress.

- Choose your own shading percentage
- Wear and frost-resistant
- Higher light transmission in rain
- Suitable for glass and plastic greenhouse covers
- Easy to remove with ReduClean



### I WANT LESS HEAT

ReduHeat is a removable coating that blocks out the heat rays (infrared) of the sun. The transmission of growth light (PAR) remains high.



- Better yield and quality
- A better climate through less ventilation
- Even climate with no peaks

### I WANT DIFFUSE LIGHT

ReduFuse distributes sunlight in the greenhouse. The even light distribution ensures optimal growth of the crop and thus potentially more production and better quality.



- Light penetrates deeper into the crop
- More photosynthesis in lower leaves
- Less stress in the crop
- Healthier crop, better quality

### I WANT DIFFUSE LIGHT AND LESS HEAT

ReduFuse IR distributes sunlight in the greenhouse and protects the crop from heat radiation. That improves growth and production.



- High reflection of heat radiation
- Lower temperature in the greenhouse
- Less stress in the crop

## HOW DO I APPLY THE COATING?

### MANUAL

- Grower can apply the coating with commonly available spray equipment
- Good alternative if application with a machine or helicopter is not an option



### HELICOPTER

- Suitable for large areas of greenhouse cover
- Particularly suitable for ReduSol
- An even spray pattern requires flying over the cover several times
- Spray loss requires extra product
- Choosing a very experienced pilot has great benefits



## HOW MANY BUCKETS PER ACRE?

	Average buckets per acre (in North America)	Net shading (excl. roof/structure)
<b>ReduSol</b> <sup>®</sup>	4 - 5	22% - 25%
<b>ReduHeat</b> <sup>®</sup>	5 - 7	6% - 9%
<b>ReduFuse</b> <sup>®</sup>	5 - 6	5% - 6%
<b>ReduFuse</b> <sup>®</sup> <b>IR</b>	7 - 9	11% - 15%

**Note:** products have to be mixed with water. For machine application 120-150 gallon spray liquid (water + coating) is used per acre. For manual application 180-200 gallon spray liquid per acre is used.

## HOW DO I REMOVE THE COATING?

**ReduClean has been specially developed to easily remove ReduSystems coatings from the greenhouse cover. For diffuse coatings, use ReduClean for diffuse coatings.**

- ReduClean makes ReduSystems coatings water-soluble. Rain then washes away the coating
- Suitable for any greenhouse cover: glass and all types of plastic



## DOUBTS ABOUT WHICH COATING WORKS BEST FOR YOU?

There is an ideal coating for every situation. Based on your crop, location, and climate, the ReduWizard on the ReduSystems website calculates the best solution for your situation. Simply enter location, crop, and greenhouse properties to receive customized advice. Use the ReduWizard for your personalized advice.



Scan the QR code to start the ReduWizard

[REDUSYSTEMS.COM/REDUWIZARD](https://redusystems.com/reduwizard) →

Contact us for more information and technical advice:

# ReduSystems<sup>®</sup>

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ReduSystems<sup>®</sup> is the global leading brand in developing coatings and cleaners for greenhouse cultivation. The products control the incidence of natural light and heat to optimise the climate for the crop in every season - from a cooler climate in summer and more light in winter, to diffuse light and changing the light spectrum.

ReduSystems is a brand of Lumiforte<sup>®</sup>.