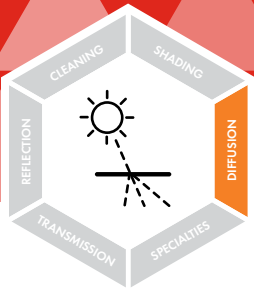


## REMOVABLE GREENHOUSE COATING FOR DIFFUSED LIGHT AND HEAT PROTECTION

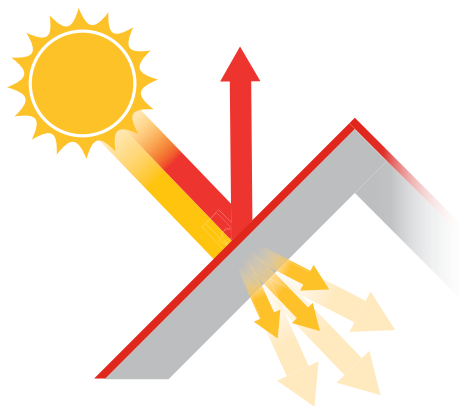


ReduFuse IR is a coating that reduces heat radiation while diffusing the light when it enters the greenhouse. That improves growth and production. A diffuse coating distributes the incoming light. This means that the top part of the crop gets less light, and the light spreads more evenly to the middle leaves. As a result, overall photosynthesis increases.

ReduFuse IR distributes sunlight in the greenhouse and protects the crop from heat radiation. It is suitable for all crops that are heavily dependent on light and has proven successful when applied to flowers, plants, and vegetables in warm climates and during warm periods. ReduFuse IR is ideal for crops that thrive on diffused light but cannot stand too much heat.

### PROPERTIES

- ✓ Suitable for glass, acrylate, polycarbonate, and plastic film.
- ✓ Highly wear-resistant.
- ✓ Easily combined with other ReduSystems products. Note: when using multiple layers, ReduFuse IR should always be the first layer on the greenhouse.
- ✓ Potentially higher yield and better quality.
- ✓ Distributes incoming PAR light evenly in the greenhouse.
- ✓ The light penetrates deeper into the crop.
- ✓ Shades Infrared Radiation (IR).



● Light ● Heat ● ReduFuse IR



SPRING



SUMMER



AUTUMN



WINTER

## HOW TO APPLY?



**DRONE**



**MACHINE**



**HELICOPTER**



**MANUAL**

**The best and longest-lasting results, with optimum light transmission, are obtained when ReduFuse IR is applied to a clean, dry greenhouse roof, as follows:**

- ✓ Apply ReduFuse IR only under fast-drying circumstances. ( $T > 10^{\circ}\text{C}/50^{\circ}\text{F} + \text{RH} < 80\%$ )
- ✓ Fill the mixing tank with the required quantity of clean water and add ReduFuse IR, stirring continuously.
- ✓ Stir the spray liquid frequently during the application.
- ✓ Apply ReduFuse IR evenly to the greenhouse surface, preferably using a spraying machine.
- ✗ Do not use any non-ReduSystems shading products in combination with ReduFuse IR.
- ✗ Do not apply when rain is expected within 12 hours, respect drying time.

BUCKETS PER HECTARE	BUCKETS PER ACRE	NET PAR SHADING	NET NIR SHADING	HORTISCATTER
22	9	19%	32%	86%
18	7	13%	21%	77%
10	4	6%	15%	53%

**Values are based on Wageningen University & Research measurements. The values mentioned are the maximum shading values possible and applied in laboratory circumstances. Depending on the application method, weather, and greenhouse type, shading values in practice can differ.**

**Note:** The number of buckets (each containing 15KG/3.57 US gal) can vary depending on the crop, climate, and type of greenhouse. **Products need to be mixed with water,** and the total amount of spraying liquid (water + coating) varies according to the application method. Net shading does not include structure.

## HOW TO REMOVE?

- ReduFuse IR should be removed with ReduClean for diffuse coatings. Spray at least 250 liters of ReduClean for diffuse coatings per hectare (26 US gal/ acre) with water at a ratio of 1:5 to 1:7. Ensure it is evenly spread over a dry greenhouse surface. Do not spray during rainy conditions or when strong winds exceed 2 m/s.
- Only apply when the roof surface is dry, and a considerable amount of rainfall is expected within 2 days. Alternatively, in case of a marginal removal result, use a new application of ReduClean for diffuse coatings combined with a brushing machine to ensure proper removal.



**Contact us for more information and technical advice:**

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ReduSystems® 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®

# ReduSystems®