

ReduSystems®

The bright side of growing



DIFFUSION

Maximum light diffusion with minimum grow-light loss

www.redusystems.com

ReduFuse®

The most flexible solution for light diffusion



What is ReduFuse?

ReduFuse is a coating that diffuses the light when it enters the greenhouse. Diffused light penetrates deeper into the crop and can improve production and quality.

Properties

- Very high light transmission
- An evenly balanced climate due to light diffusion
- Less stress in the crop
- More photosynthesis, also in the lower leaves
- Lower leaf temperature
- Transparent during rainfall
- Highly wear-resistant
- More comfortable work conditions
- Only to be applied on glass roofs

Application

ReduFuse is suitable for all crops that need large amounts of light. Shading is minimal so there is no protection against heat radiation. ReduFuse has proven successful when applied to vegetable crops and highly light-dependent flowers and plants.

How to apply

For the best results, ReduFuse 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. ReduFuse should only be applied on glass roofs with a roof washer available. The table below shows the number of buckets required and the effect on the greenhouse climate.

How to remove

ReduFuse can be removed with ReduClean. 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). Preferable ReduClean is sprayed by machine.

Only apply when the roof surface is dry but heavy rainfall is expected within 2 days. In most cases the ReduFuse is then entirely washed away by the rain. If not, the roof should be brushed with a roof washer.

For further information see
www.redustrategies.com

Buckets per ha / acre	Heat reflection	Grow-light reflection (PAR)	Wear resistance
20 / 8	+++++	+++++	+++++
14 / 6	+++++	+++++	+++++

ReduFuse[®]

IR

Optimal diffusion combined with heat reflection



What is ReduFuse IR?

ReduFuse IR is a coating that reduces heat radiation while diffusing the light when it enters the greenhouse.

Properties

- High light transmission (PAR)
- High reflection of heat radiation (infrared)
- An evenly balanced climate due to light diffusion
- Less stress in the crop
- More photosynthesis, also in the lower leaves
- Lower leaf temperatures
- Highly wear-resistant
- Easy to remove with ReduClean
- More comfortable work conditions
- Suitable for glass, acrylate, polycarbonate and plastic film

Application

ReduFuse IR 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.

How to apply

For the best results, ReduFuse IR 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

ReduFuse IR 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 ReduFuse IR layer.

For further information see
www.reduSystems.com

Buckets per ha / acre	Heat reflection	Grow-light reflection (PAR)	Wear resistance
22 / 9	+++++	+++++	+++++
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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