

D-FUSE and D-FUSE Extra



D-FUSE and D-FUSE Extra Diffuse coating for optimal light distribution



- High light transmission and diffusion
- Better horizontal and vertical light distribution
- Maximum wear resistance
- Fixed dosage
- Easy to remove with Removit



Direct light



Diffuse light

D-FUSE makes light diffuse

The great advantage of diffuse light is that the available PAR light is diffused and therefore penetrates deeper into and between the crop. This means more photosynthesis and therefore a more active crop.

Better horizontal and vertical light diffusion

The degree to which sunlight is scattered is called the 'Haze factor', expressed as a light scattering percentage. The higher this percentage, the bigger the area of light distribution is. D-FUSE has a high Haze factor and provides a better light distribution in the greenhouse. Shadows of the greenhouse construction and plants are reduced. In addition to reducing shadows, a better vertical light distribution ensures that up to three times PAR light reaches the middle and bottom of the plant, compared to untreated clean glass. The diffuse light also reduces plant and fruit temperature and plant load. This results in better quality and optimal growth of your crop.

D-FUSE and D-FUSE Extra

The cultivation of various crops differs from one another and therefore also the need for and tolerance of light and heat. But also the greenhouses in which they are cultivated differ from each other. In order to respond to these different needs, two variants of D-FUSE have been developed: D-FUSE and D-FUSE Extra. D-FUSE Extra provides a little more protection than D-FUSE, by providing slightly more light shielding and a higher degree of light scattering.

Shading percentage

Through experience, we have found that a dilution ratio of 13 buckets of D-FUSE per hectare offers the most optimal climate and diffusivity for your crop. The table shows the shading percentage compared to 13 buckets of D-FUSE per acre.

	Buckets per hectare	% Shading in lux +/-	% Haze (diffusivity)	Lifespan (weeks) +/-	Weather resistance
D-FUSE	13	2-3%	86%	16-20	Maximaal
D-FUSE Extra	13	9-11%	95%	16-20	Maximaal

Lifespan is measured in average European weather conditions. Extreme weather conditions may slightly affect the values specified in the table.

Removal

D-FUSE can be easily removed at any time from the greenhouse deck with Removit. By spraying with Removit in the right dosage, the greenhouse roof will be clean again after a few showers. If there is no rain for more than a week, a repeat treatment may be necessary. You can also choose to rinse D-FUSE off with water immediately after spraying the greenhouse roof.

Environment, storage and application

D-FUSE contains no environmentally harmful components and complies the Dutch discharges decree. D-FUSE must be stored frost-free. The product has a shelf life of two years. If D-FUSE is older than one year, it must first be stirred in the bucket before adding it to clean water. D-FUSE should be applied when the weather is dry, above 5°C and when no rain is expected.

More information

For more information on these or other products please contact your local Royal Brinkman account manager or contact Royal Brinkman International: +31 174-446100. More information is also available on our website: www.royalbrinkman.com