TECHNICAL DATASHEET REDUFLEX BLUE



Product information

Category	Photo-selective coating for greenhouses
Description	ReduFlex Blue is a photo-selective coating which has a beneficial effect on the cultivation and production of different crops. For example for cut roses, since it changes the ratio between red and blue light in the spectrum. ReduFlex Blue is normally applied before the summer.
Properties	• Decreasing plant and bud temperatures • Lowers greenhouse temperatures through high reflection of infrared radiation • Increases the length of the stems of roses by reflecting a larger amount of blue light • Highly wear-resistant • Suitable for glass, acrylate, polycarbonate and plastic film • Easy to remove with ReduClean
Recommended use	For exterior greenhouse covers
Recommended surface	Suitable for glass, acrylate, polycarbonate and plastic film
Identified users	Industrial – for professional use only

Technical specifications

Physical state	Liquid
Colour	Beige and Blue
Odour	Characteristic
pH	9
Flammability (solid, gas)	Non flammable
Density	1,1 g/cm^3
Viscosity	7500 mPa.s Brookfield RV, spindle 5, 10 rpm, 20°C
Wear resistance	A higher concentration of ReduFlex Blue is more wear resistant than a lower concentration. Above average amount or intensity of precipitation will increase the wear of the layer.
More transparent when wet	Slightly
Transport regulation (ADR, RID, IMDG, IATA, IDN)	No restrictions

Storage conditions

Packaging	15 kg bucket (= 13,4 L) 1 pallet contains 33 or 44 buckets
Shelf life	Unopened containers have a shelf life of 2 years. After one year, it is necessary to stir well before mixing with water. Keep only in the original container in a cool, well-ventilated place. Products should be protected against frost (below 0 °C) and overheating (above 35 °C).

This technical datasheet is based on many years of experience. We can not be held liable for any damages resulting from the use of this product or any damages beyond her control. The customer should check, using the means normally available to him, whether the products supplied are suitable for the planned application. If in doubt, consult our technical specialists via sales@redusystems.com.

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Instructions for use

Surface preparation

The surface must be clean and dry before the application of ReduFlex Blue. A clean surface improves durability.
Preferably close the irrigation basin during the application of ReduFlex Blue.

Weather conditions

- An outside temperature of between 10 and 25 °C
- Wind speed of less than 2 m/s (7 km/h)
- For fast drying: relative humidity (RH) < 80 %
- Do not apply ReduFlex Blue to a wet surface or when rain is expected within 12 hours

Equipment

Application should be done by spraying the liquid on the surface:

- By spraying machine
- By hand with a spray gun
- By helicopter

Personal protection

- Safety glasses
- Protective gloves

Quantity

	BUCKETS/HA		HEMISPHERICAL NET SHADING EXCL. GLASS	HEMISPHERICAL GROSS SHADING INCL. GLASS	PERPENDICULAR NET SHADING EXCL. GLASS	
	MACHINE	**MANUAL**	**PAR**	**PAR**	**PAR**	**NIR**
ReduFlex Blue	22	24	40%	51%	37%	46%
15 kg = 13,5 L	18	20	33%	45%	30%	38%

The values mentioned are maximum shading values possible and applied in laboratory circumstances. Depending on the application technic, weather and greenhouse type, shading values in practice can differ.

Dilution

Dilute ReduFlex Blue with clean water to prepare your spray liquid:
Machine application: 1,000 – 1,500 liter spray liquid per 10.000 m²
Manual application: 1,700 – 2,000 liter spray liquid per 10.000 m²

Drying time

Drying time depends on outside temperature, glass temperature and wind speed. The coating should be dry before nightfall because condensation may damage the layer. Do not apply ReduFlex Blue when rain is expected within 12 hours.

Removal

ReduFlex Blue is easy to remove with ReduClean. Spray at least 250 liters of ReduClean per hectare, diluted with 5-7 parts of clean water. Only apply ReduClean when the roof surface is dry but rainfall is expected in the next few days. The rain will wash of the ReduFlex Blue layer. Check if the waterways and surroundings are suitable for the inflow of ReduFlex Blue.
Do not apply ReduClean on a wet surface or during rain.
Use of roof-sprinklers for cooling can cause removal problems.

Environment

Environmental precautions

Always dilute products with water in the right amount before use.
Dispose in a safe manner in accordance with local/national regulations.
If disposing in public water, dispose in a wide river with sufficient capacity.
Apply the coating by machine if possible, this gives a more uniform layer and less loss of product into the environment.
Discharging cleaning water into the watercourse without flow can give turbidity or cause whitening, ensure enough flow.

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