Eclipse® F4

TECHNICAL DATASHEET

PRODUCT INFORMATION	
Category	Temporary protection from heat and excess light with no need to clean
Description	Eclipse® F4 is a removable white shading agent for greenhouse applications. Eclipse F4 protects crops against too much heat and light throughout the season and can be applied on the outside of all standard greenhouse materials.
Properties	• Temporary protection of your crop • Adjustable shading intensity • Variable protection time • Wears off gradually during the season • No need to clean off at the end of the season • Easy application on all types of greenhouses
Recommended use	For all greenhouse surfaces
Recommended surface	Suitable for glass, acrylate, polycarbonate and plastic film
Identified users	Industrial – for professional use only

TECHNICAL SPECIFICATIONS	
Physical state	Liquid
Colour	Beige
Odour	Neutral
pH	8.8 – 9.8
Flammability (solid, gas)	Non flammable
Density	1.43 g/cm³
Viscosity	4300 mPa·s Brookfield, 20 rpm, 20°C
Wear resistance	Wear resistant from two to four months, depending on the weather conditions. Will gradually wear off over the course of a season.
More transparent when wet	Yes
Transport regulation (ADR, RID, IMDG, IATA, IDN)	No restrictions

STORAGE CONDITIONS	
Packaging	20 kg bucket (= 14 L) 1 pallet contains 44 buckets except in case of container shipment (1 pallet 100 x 120 cm contains 56 buckets for containers)
Shelf life	Unopened containers have a shelf life of 2 years. 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. Lumiforte 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 welcome@lumiforte.com.

Sudlac is a brand of Lumiforte®

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INSTRUCTIONS FOR USE	
Surface preparation	The surface must be clean and dry before the application of Eclipse F4. A clean surface improves durability. Preferably close the irrigation basin during the application of Eclipse F4.
Weather conditions	• An outside temperature of between 5 and 30°C • Wind speed of less than 2 m/s (7 km/h) • For fast drying: relative humidity (RH) < 80 % • Do not apply Eclipse F4 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	Eclipse F4 20 kg

Buckets/ha		Hemispherical gross shading (incl. glass)	Perpendicular net shading (excl. glass)	
Machine	Manual	PAR	PAR	NIR
5	6	40%	17%	17%
10	11	51%	34%	34%
20	22	67%	56%	56%
30	33	76%	65%	65%

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 Eclipse F4 with clean water to prepare your spray liquid: Machine application: 1,000 – 1,500 liter spray liquid per 10.000 m^2 Manual application: 1,700 – 2,000 liter spray liquid per 10.000 m^2
Drying time	Drying time depends on outside temperature, plastic temperature and wind speed. The coating should be dry before nightfall because condensation may damage the layer. It is recommended to apply Eclipse F4 during fast-drying weather conditions.
Removal	Eclipse F4 gradually wears off during the season depending on the weather conditions. Eclipse F4 can be easily removed with the use of Eclipse Net.

EFFECT ON CROPS AND ENVIRONMENT	
Tests	Based on the results of Astredhor 2020 experiment (available on demand), Sudlac shading products have no impact on the development and growth of young tomato and cucumber plants. However, we recommend allowing the rinsing water to settle for 24 hours before irrigation.
Environmental precautions	Always dilute products with water in the right amount before use. 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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