Canope F4

TECHNICAL DATASHEET

PRODUCT INFORMATION	
Category	Temporary and biodegradable greenhouse shading coating against excess sunlight and heat
Description	Canope F4 is a temporary and biodegradable liquid shading coating, powered by our modified starch technology, which provides up to 4 months of wear resistance. This biobased and biodegradable coating provides protection against excessive sunlight and heat.
Properties	• Temporary protection of your crop • Adjustable shading intensity • Based on modified corn starch • 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 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/cm^3
Viscosity, kinematic	3006.993 mm^2/s
Viscosity, dynamic	4300 mPa.s
Wear resistance	The wear resistance is dependent on the dilution factor, it provides up to 4 months of wear resistance and the coating will wear off over time.
More transparent when wet	Yes
Biodegradability	Biodegradable formulation according to OECD 301F guideline
Transport regulation (ADR, RID, IMDG, IATA, IDN)	No restrictions

STORAGE CONDITIONS	
Packaging	20 kg bucket (= 14 L / 3.69 US gal.) IBC 1400 kg (= 979 L / 259 US gal.) 1 pallet contains 33 or 44 buckets depending on the truck or container load. The pallet dimensions are 80 x 120cm.
Shelf life	Unopened containers have a shelf life of 2 years. After 1 year stirring is needed before mixing with water. Keep only in the original container in a cool, well-ventilated place. Products should be protected against frost (below 7 ^{0}C) and overheating (above 35 ^{0}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.

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INSTRUCTIONS FOR USE	
Surface preparation	The surface must be clean and dry before the application of Canope F4. A clean surface improves durability. Preferably close the irrigation basin during the application of Canope 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 Canope 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 • By drone
Personal protection	• Safety glasses • Protective gloves
Quantity	Canope F4 20 kg Application instructions for 10,000m² (1 ha = 2,5 acre)

Machine		Manual			
Spraying liquid* 1200L / ha 317 US gal / 2,5 acre		Spraying liquid* 1500L / ha 396US gal / 2,5 acre			
Buckets	Water	Buckets	Water	Net Shading Value (Excl. glass)	Gross Shading Value (Incl. glass)**
16	976 L 258 US gal	18	1248 L 330 US gal	50%	67%
11	1046 L 276 US gal	12	1332 L 352 US gal	38%	55%
7	1102 L 291 US gal	8	1388 L 367 US gal	32%	49%

* Spraying liquid = coating + water.
** The gross shading value section includes the light reduction caused by greenhouse glass (17% on average, hemispherical measurements). Light reduction caused by the greenhouse structure (5-15%) was not included in the gross shading values.

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 Canope F4 during fast-drying weather conditions.
Removal	Canope F4 gradually wears off during the season depending on the weather conditions.

ENVIRONMENT	
Environmental precautions	• This self-degradable biobased coating is a water-based product that does not contain harmful ingredients for the environment. • The organic binder, which is the modified starch in the formulation, could become a nutrient for the environment during the lifecycle of the coating. • Prevent discharge into surface water as discoloration will occur.

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