TECHNICAL DATASHEET REDUHEAT



Product information

Category	Shading coating for greenhouses			
Description	ReduHeat is a removable shading coating containing a pigment that transmits grow-light (PAR) while reflecting a larger part of the heat radiation. ReduHeat is normally applied in spring or early summer and will last until it is removed with ReduClean.			
Properties	 High level of grow-light (PAR) transmission High reflection of heat radiation (infrared) An evenly balanced climate without peaks Highly wear-resistant 			
Recommended use	Easy to remove with ReduClean For exterior greenhouse covers			
Recommended surface	Suitable for glass, acrylate, polycarbonate and plastic film			
Identified users	Industrial – for professional use only			

Technical specifications

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Physical state	Liquid		
Colour	Beige		
Odour	Characteristic		
рН	9		
Flammability (solid, gas)	Non flammable		
Density	1,1 g/cm ³		
Viscosity	7600 mPa.s Brookfield RV, spindle 5, 10 rpm, 20°C		
Wear resistance	A higher concentration of ReduHeat 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	Yes		
Transport regulation	No restrictions		
(ADR, RID, IMDG, IATA, IDN)			

Storage conditions

Packaging	15 kg bucket (= 13,5 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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Surface preparation	The surface must be clean a	and dry before the applice	ation of ReduHeat. A clean	surface improves durability	у.			
	Preferably close the irrigation basin during the application of ReduHeat.							
Veather conditions	• An outside temperature of between 10 and 25 °C		• For fast drying: re	• For fast drying: relative humidity (RH) < 80 %				
	 Wind speed of less than 2 m/s (7 km/h) 		 Do not apply Red 	• Do not apply ReduHeat to a wet surface or when rain is expected within 12 hours				
quipment	Application should be done	e by spraying the liquid or	n the surface:					
	 By spraying machine 							
	 By hand with a spray guild 	n						
	 By helicopter 							
Personal protection	 Safety glasses 		 Protective gloves 					
Quantity				GPOSS S				
		BUCKETS/HA		GROSS SHADING INCL. GLASS & STRUCTURE		NET SHADING EXCL. GLASS & STRUCTURE		
		MACHINE	MANUAL	PAR	NIR	PAR	NIR	
	ReduHeat	25	28	44%	55%	13%	24%	
	15 kg = 13,5 l	20	22	41%	50%	10%	19%	
		15	17	38%	45%	7%	14%	
ilution	Dilute ReduHeat 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							
rying 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.							
Removal	ReduHeat 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 a considerable an							
	of rain is expected within one week. The rain will wash of the ReduHeat layer. Check if the waterways and surroundings are suitable for the inflow of ReduHeat.							
	Do not apply ReduClean or	n a wet surface or during r	rain. Use of roof-sprinklers fo	or cooling can cause remov	al problems.			

Effect on crops and environment

Tests	2006 Mardenkro B.V. Environmental impact study: ReduHeat gives water a temporary white colour but settles quickly and becomes part of the soil structure in the water.		
	2014 Groen Agro Control. Effect on irrigation water: No signs of impact on plant growth or root development.		
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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