



# OMBRAFLEX

## SHADING PAINTS

Thermal protection for your greenhouses



# SUMMARY



03

About us

04

Ombraflex  
Light

06

Ombraflex  
Standard



08

Ombraflex  
Horticole

10

Ombraflex  
Gap

12

Ombraflex  
Reverso

14

Ombrastop  
Gel

15

Ombrastop  
Reverso

16

Special Paint  
for hoop houses  
(P.P.A)

17

Wear levels of  
shading paints

18

Application  
methods







## Crop protection solutions

Ombraflex designs and manufactures **paints intended for shading glass or plastic greenhouses shading and all kind of industrial and urban glazing.**

**Ombraflex** succeeded in becoming to become a **specialist of the heating and lighting regulation** inside the greenhouses.

Benefits of Ombraflex products:

- **Protection against infrared and U.V. rays**
- **Limitation of the overheating** inside greenhouses that may damage plants
- **Optimized shading**

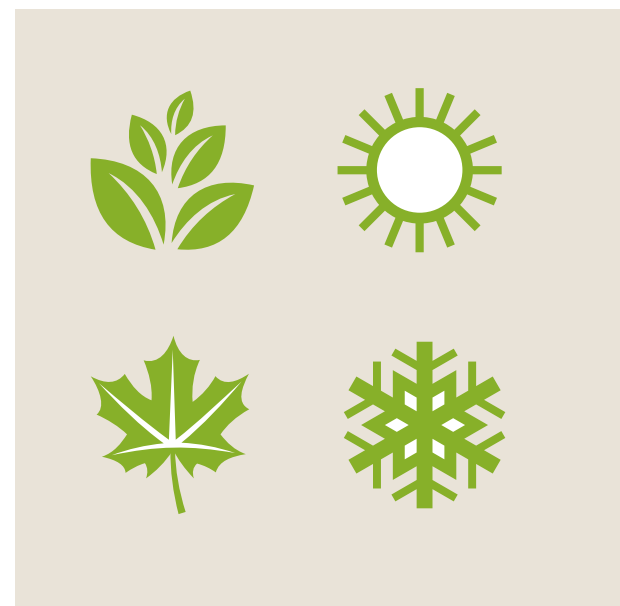
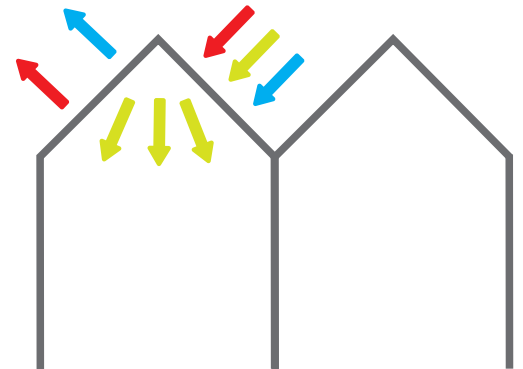
Applied in early spring **to prevent hot temperatures**, the shading paint eliminates itself when exposed to autumn rainfall in order to allow **more luminosity** inside greenhouses, which is essential at this time of the year.

To facilitate the elimination of the shading paint, **Ombrastop** is the appropriate **cleaning solution**, which enables a **fast and less aggressive removal**.

Ombraflex has also developed a special paint for hoop houses to increase the life time of the plastic cover, otherwise shortened by the heating of the hoops.

**Ombraflex shading paints are mainly composed of natural elements.**

**All Ombraflex products are designed and manufactured in France.**





# OMBRAFLEXLIGHT



## Light shading paint for plastic or glass greenhouses.

- For geographical areas with **low annual rainfall**
- Adjustable shading intensity** according to dilution rate
- Can be applied on **glass or plastic screens**
- Eliminates itself** overtime
- Ultra-high solid content**

Ombraflex Light is the most economical product of the range. It has to be applied late during the season and therefore will be eliminated faster.

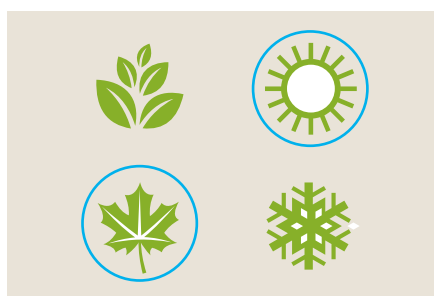


### Moderate hold

Available in 25 kg drum and upon request in 1300 kg container



## PRACTICAL RECOMMENDATIONS



### When can I use OMBRAFLEX LIGHT ?

**At the end of the season** if heat is still extreme. Ombraflex Light will be eliminated faster in the early fall

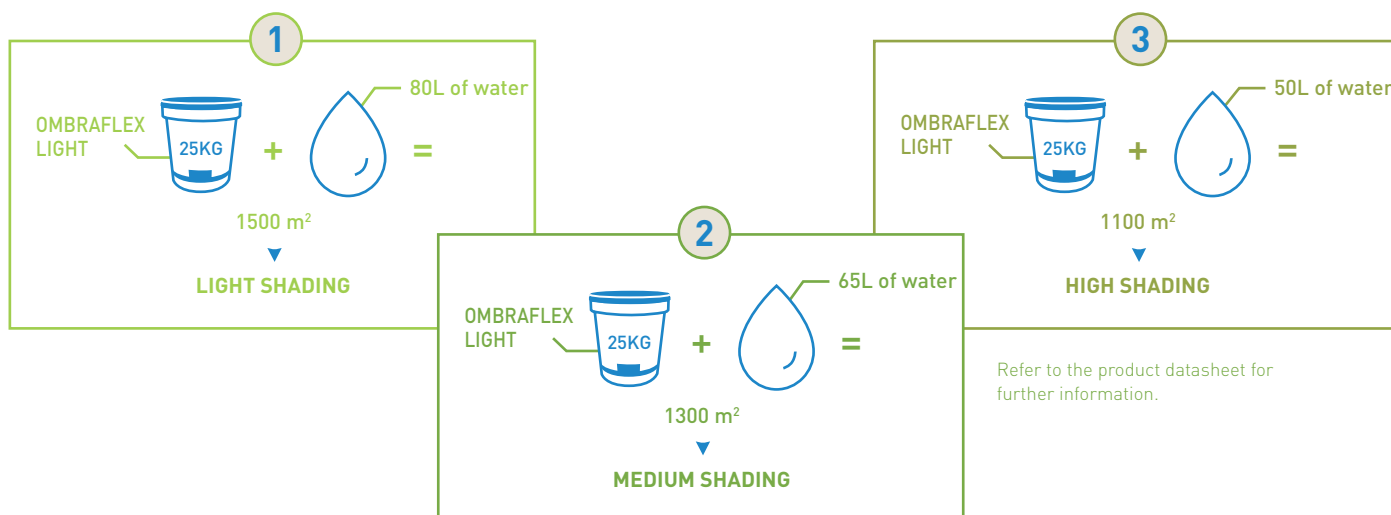
OMBRAFLEX LIGHT <sup>(*)</sup>	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Horticulture, plant nurseries	Not suitable	Possible / Not advisable	Possible / Not advisable	Possible / Not advisable	High	High	High	High	Light	Possible / Not advisable	Not suitable	Not suitable
Market gardening	Not suitable	Possible / Not advisable	Possible / Not advisable	Light	Medium	High	High	High	Light	Possible / Not advisable	Not suitable	Not suitable

\* Indicative data based on an average European climate

### SHADING LEVEL

■ Not suitable    
 ■ Light    
 ■ Medium    
 ■ High    
 ■ Possible / Not advisable

## COVERAGE & PERFORMANCES



SHADING INTENSITY	DILUTION	DRUMS/HA <sup>(1)</sup>	TOTAL REFLECTANCE (%) <sup>(2)</sup>	PAR [% visible transmission] <sup>(2)</sup>	WEAR RESISTANCE (%) <sup>(3)</sup>
LIGHT SHADING	1:5	7	<div style="width: 45%;"></div> 45	<div style="width: 52%;"></div> 52	★★★★☆☆
MEDIUM SHADING	1:4	8	<div style="width: 51%;"></div> 51	<div style="width: 46%;"></div> 46	★★★★☆☆
HIGH SHADING	1:3	9	<div style="width: 65%;"></div> 65	<div style="width: 32%;"></div> 32	★★★★☆☆

<sup>(1)</sup> Number of drums for 10 000 m<sup>2</sup>. Average value can vary with the limit of 30% depending on needs and weather conditions. <sup>(2)</sup> These are guide values (achieved in laboratory) and may vary for measurements realized *in situ* depending on coverage and dilution applied. <sup>(3)</sup> Product wear resistance of Ombraflex range is based on an average European climate.

Extreme weather conditions can modify the indicated results



# OMBRAFLEX STANDARD



**Standard shading paint for plastic or glass greenhouses, as well as urban or industrial building windows.**

- ✓ Adjustable shading intensity according to dilution rate
- ✓ Can be applied on glass or plastic screens
- ✓ Eliminates itself overtime
- ✓ Protection against infrared and U.V. rays
- ✓ Ultra-high solid content

**Ombraflex Standard** is more resistant than **Ombraflex Light** avoiding a second spray application during the season.

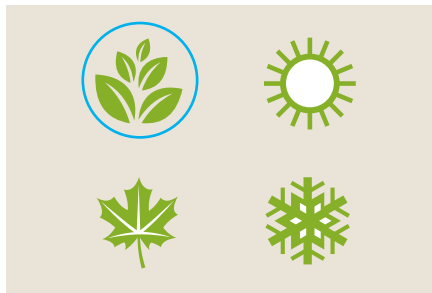


**Standard hold**

Available in 25 kg drum and 2,5 L can



## PRACTICAL RECOMMENDATIONS



**When can I use OMBRAFLEX STANDARD ?**

**At the beginning of the season.**

OMBRAFLEX STANDARD <sup>(*)</sup>	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Horticulture, plant nursering	Not suitable	Possible / not advisable	Possible / not advisable	Possible / not advisable	High	High	Medium	Medium	Possible / not advisable	Possible / not advisable	Not suitable	Not suitable
Market gardening	Not suitable	Possible / not advisable	Possible / not advisable	Light	Medium	High	Medium	Medium	Possible / not advisable	Possible / not advisable	Not suitable	Not suitable

\* Indicative data based on an average European climate

### SHADING LEVEL

Not suitable

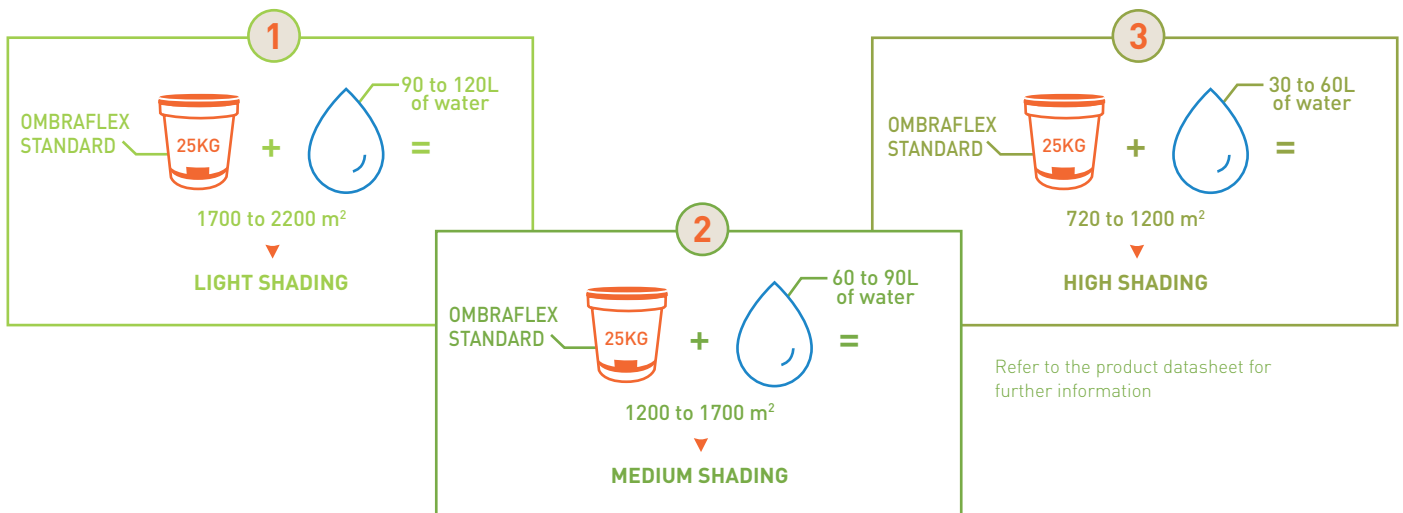
Light

Medium

High

Possible / not advisable

## COVERAGE & PERFORMANCES



SHADING INTENSITY	DILUTION	DRUMS/HA <sup>(1)</sup>	TOTAL REFLECTANCE (%) <sup>(2)</sup>	PAR (% visible transmission) <sup>(2)</sup>	WEAR RESISTANCE (%) <sup>(3)</sup>
LIGHT SHADING	1:7	5	46	52	★★★★★☆☆☆☆
MEDIUM SHADING	1:5	7	54	44	★★★★★☆☆☆☆
HIGH SHADING	1:3	11	68	29	★★★★★☆☆☆☆

<sup>(1)</sup> Number of drums for 10 000 m². Average value can vary with the limit of 30% depending on needs and weather conditions. <sup>(2)</sup> These are guide values (achieved in laboratory) and may vary for measurements realized in situ depending on coverage and dilution applied. <sup>(3)</sup> Product wear resistance of Ombraflex range is based on an average European climate. Extreme weather conditions can modify the indicated results.

PAR: Photosynthetics Actives Radiations.





# OMBRAFLEX HORTICOLE



## Reinforced shading paint for plastic or glass greenhouses.

- ✓ Excellent weatherability
- ✓ Adapted to high sunny regions
- ✓ Adjustable shading intensity according to dilution rate
- ✓ Can be applied on glass or plastic screens
- ✓ Eliminates itself overtime
- ✓ Protection against infrared and U.V. rays

**Ombraflex Horticole** is the most **opaque and homogeneous** shading paint. It is therefore the right one for regions with high degree of sun exposure. With its natural earth-toned color, **Ombraflex Horticole** provides an **optimum shading** as well as a comfortable climate inside greenhouses.



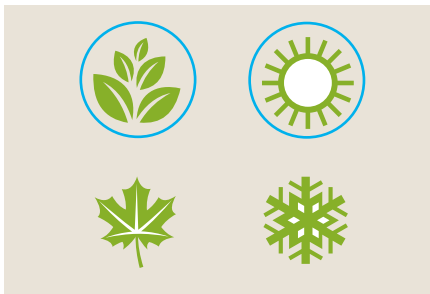
### Reinforced hold

Available in 25 kg drum and upon request in 1300 kg container





## PRACTICAL RECOMMENDATIONS



### When can I use OMBRAFLEX HORTICOLE ?

At the beginning of the season without a second spraying during the year.

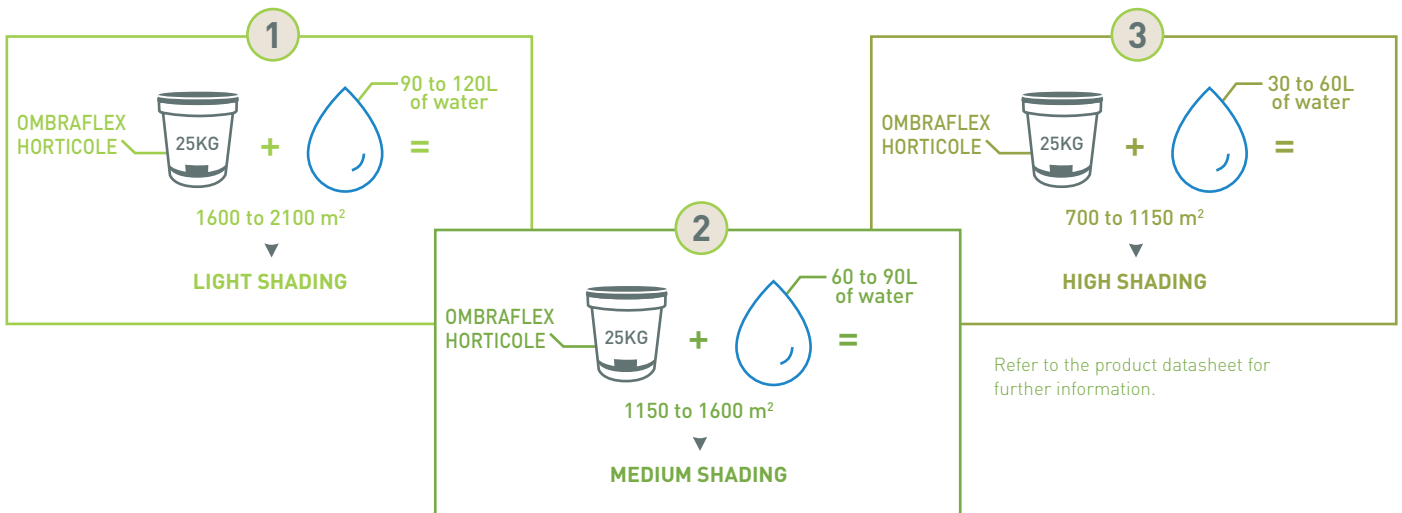
OMBRAFLEX HORTICOLE <sup>(1)</sup>	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Horticulture, plant nurseries	Not suitable	Light	Light	Medium	High	High	Light	Light	Light	Possible / not advisable	Not suitable	Not suitable
Market gardening	Not suitable	Possible / not advisable	Light	Light	Medium	High	Light	Light	Light	Possible / not advisable	Not suitable	Not suitable

\* Indicative data based on an average European climate

### SHADING LEVEL

■ Not suitable    
 ■ Light    
 ■ Medium    
 ■ High    
 ■ Possible / not advisable

## COVERAGE & PERFORMANCES



SHADING INTENSITY	DILUTION	DRUMS/HA <sup>(1)</sup>	TOTAL REFLECTANCE [%] <sup>(2)</sup>	PAR [% visible transmission] <sup>(2)</sup>	WEAR RESISTANCE [%] <sup>(3)</sup>
LIGHT SHADING	1:7	5	<div style="width: 46%;"></div> 46	<div style="width: 51%;"></div> 51	★★★★☆
MEDIUM SHADING	1:5	8	<div style="width: 56%;"></div> 56	<div style="width: 44%;"></div> 44	★★★★☆
HIGH SHADING	1:3	12	<div style="width: 66%;"></div> 66	<div style="width: 31%;"></div> 31	★★★★★

<sup>(1)</sup> Number of drums for 10 000 m<sup>2</sup>. Average value can vary with the limit of 30% depending on needs and weather conditions. <sup>(2)</sup> These are guide values (achieved in laboratory) and may vary for measurements realized in situ depending on coverage and dilution applied. <sup>(3)</sup> Product wear resistance of Ombraflex range is based on an average European climate. Extreme weather conditions can modify the indicated results.

PAR: Photosynthetics Actives Radiations.



## Reinforced shading paint for agricultural activities under large plastic shelters.

- ✓ Excellent weatherability
- ✓ Adapted to high sunny regions
- ✓ Adjustable shading intensity according to dilution rate
- ✓ To be applied on plastic screens
- ✓ Eliminates itself overtime
- ✓ Protection against infrared and U.V. rays

Like **Ombraflex Horticole**, **Ombraflex Gap** is an opaque and homogeneous shading paint, but is especially effective on plastic shelters. It is highly recommended for growing lamb's lettuce.

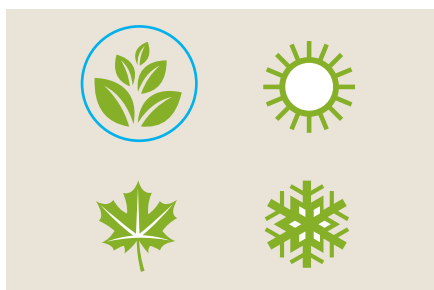


### Reinforced hold

Available in 25 kg drum and upon request in 1300 kg container



## PRACTICAL RECOMMENDATIONS



### When can I use OMBRAFLEX GAP ?

Ombraflex Gap has an extended application period. It can be applied in late winter in regions with high degree of sun exposure.

#### Low sunlight regions

OMBRAFLEX GAP <sup>(*)</sup>	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Horticulture, plant nursering	Not suitable	Light	Light	Medium	High	High	Possible / not advisable	Possible / not advisable	Not suitable	Not suitable	Not suitable	Not suitable
Market gardenning	Not suitable	Possible / not advisable	Possible / not advisable	Light	Medium	High	Possible / not advisable	Possible / not advisable	Not suitable	Not suitable	Not suitable	Not suitable

\* Indicative data based on an average European climate

#### High sunlight regions

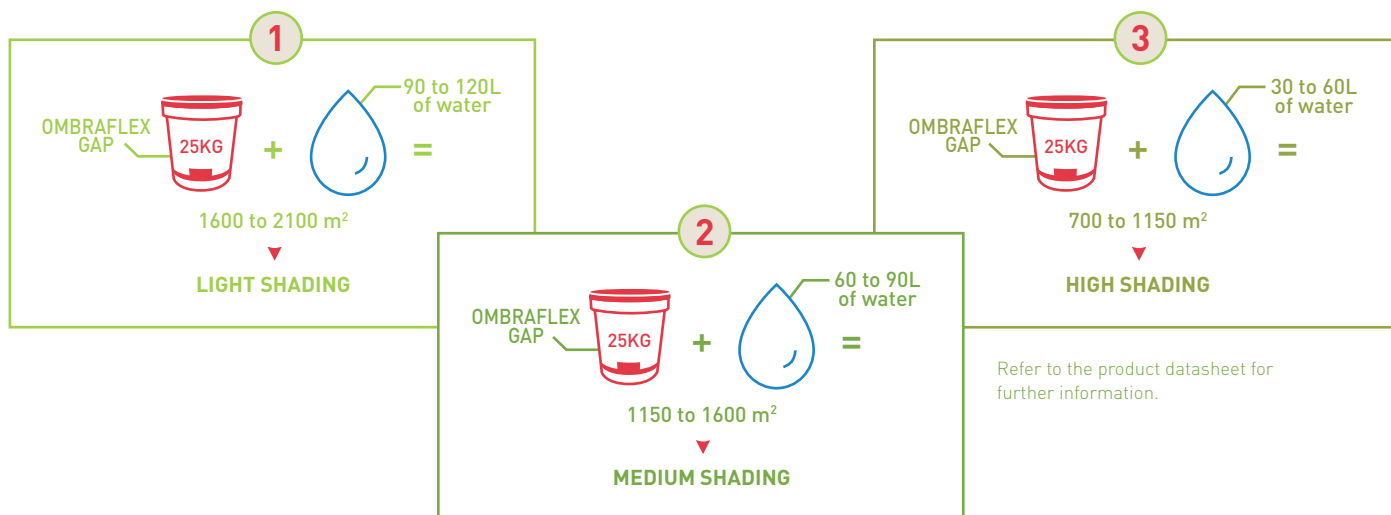
OMBRAFLEX GAP <sup>(*)</sup>	JAN	FEB	MAR	AVR	MAI	JUIN	JUIL	AOU	SEP	OCT	NOV	DEC
Horticulture, plant nursering	Not suitable	Possible / not advisable	Possible / not advisable	Possible / not advisable	High	High	Light	Light	Light	Possible / not advisable	Possible / not advisable	Not suitable
Market gardenning	Not suitable	Possible / not advisable	Possible / not advisable	Light	Medium	High	Light	Light	Light	Possible / not advisable	Possible / not advisable	Not suitable

\* Indicative data based on an average European climate

#### SHADING LEVEL

■ Not suitable    
 ■ Light    
 ■ Medium    
 ■ High    
 ■ Possible / not advisable

## COVERAGE & PERFORMANCES



SHADING INTENSITY	DILUTION	DRUMS/HA <sup>(1)</sup>	TOTAL REFLECTANCE (%) <sup>(2)</sup>	PAR (% visible transmission) <sup>(2)</sup>	WEAR RESISTANCE (%) <sup>(3)</sup>
LIGHT SHADING	1:7	5	46	51	★★★★☆
MEDIUM SHADING	1:5	8	56	44	★★★★☆
HIGH SHADING	1:3	12	66	31	★★★★☆

<sup>(1)</sup> Number of drums for 10 000 m<sup>2</sup>. Average value can vary with the limit of 30% depending on needs and weather conditions. <sup>(2)</sup> These are guide values (achieved in laboratory) and may vary for measurements realized in situ depending on coverage and dilution applied. <sup>(3)</sup> Product wear resistance of Ombraflex range is based on an average European climate. Extreme weather conditions can modify the indicated results.

PAR: Photosynthetic Active Radiations.





# OMBRAFLEX REVERSO



**Standard shading paint for plastic or glass greenhouses.**

- ✓ Excellent weatherability
- ✓ Adapted to high sunny regions
- ✓ Adjustable shading intensity according to dilution rate
- ✓ Can be applied on glass or plastic screens
- ✓ Removal at will with **OMBRASTOP REVERSO**
- ✓ Protection against infrared and U.V. rays

Ombraflex Reverso takes advantage of a shading layer very opaque which fluctuates according to weather conditions. The film becomes more translucent in case of precipitation.

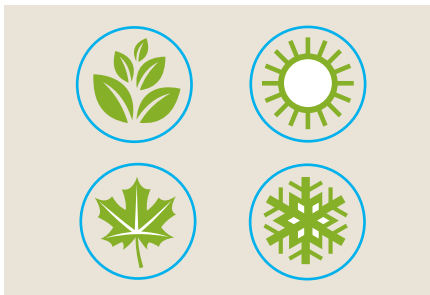
**Caution : Shade only with OMBRASTOP REVERSO**



**On demand shading**

Available in 20 kg drum

## PRACTICAL RECOMMENDATIONS



### When can I use OMBRAFLEX REVERSO?

Whenever since the removal takes place as needed.

#### Low sunlight regions

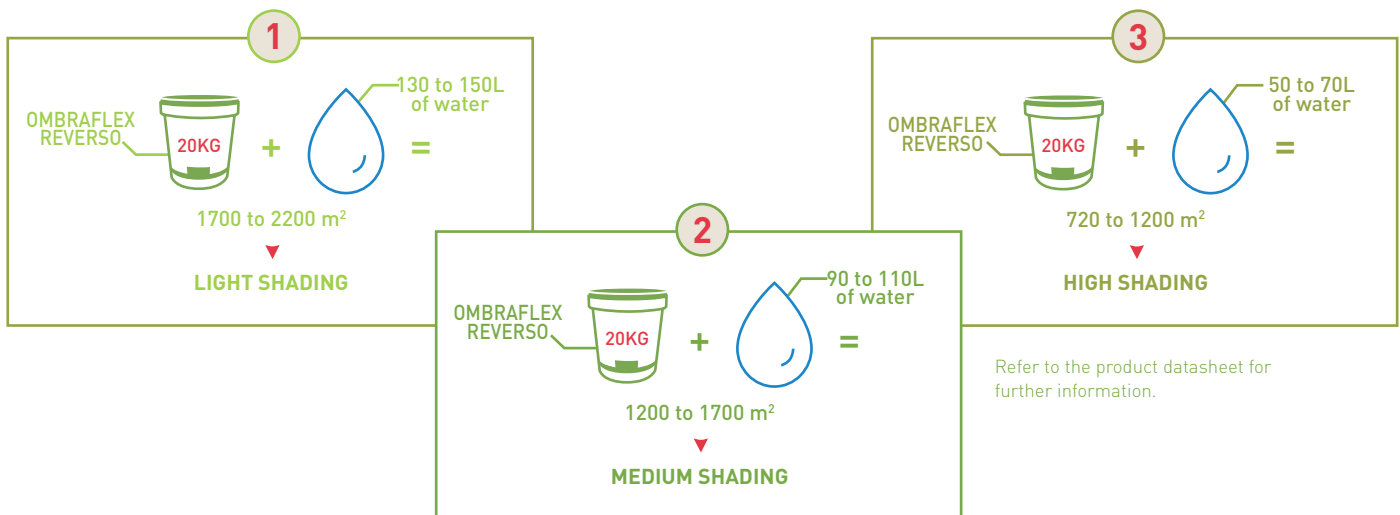
OMBRAFLEX REVERSO <sup>(1)</sup>	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Horticulture, plant nurseries	Not suitable	Light	Light	Medium	High	High	High	High	High	Possible / not advisable	Not suitable	Not suitable
Market gardening	Not suitable	Possible / not advisable	Light	Light	Medium	High	High	High	High	Possible / not advisable	Not suitable	Not suitable

\* Indicative data based on an average European climate

#### SHADING LEVEL

■ Not suitable    
 ■ Light    
 ■ Medium    
 ■ High    
 ■ Possible / not advisable

## COVERAGE & PERFORMANCES



SHADING INTENSITY	DILUTION	DRUMS/HA <sup>(1)</sup>	TOTAL REFLECTANCE (%) <sup>(2)</sup>	PAR (% visible transmission) <sup>(2)</sup>	WEAR RESISTANCE (%) <sup>(3)</sup>
LIGHT SHADING	1:7	6	IN-PROCESS MEASUREMENT	IN-PROCESS MEASUREMENT	★★★★★☆☆
MEDIUM SHADING	1:5	16	IN-PROCESS MEASUREMENT	IN-PROCESS MEASUREMENT	★★★★★★★
HIGH SHADING	1:3	25	IN-PROCESS MEASUREMENT	IN-PROCESS MEASUREMENT	★★★★★★★

<sup>(1)</sup> Number of drums for 10 000 m². <sup>(2)</sup> Product wear resistance of Ombraflex range is based on an average European climate. Extreme weather conditions can modify the indicated results.



# OMBRASTOPGEL



## Shading paint remover for greenhouses.

- Water-thinnable gelified concentrate
- Adapted to glass and plastic greenhouses
- Spray application

To eliminate the Ombraflex paints at the end of the shading season, Ombraflex has developed a **specific shading remover : OMBRASTOP GEL**. Sprayed on greenhouse, any paint residue will be removed. **The greenhouses will become transparent again.** Is suitable for OMBRAFLEX LIGHT, STANDARD, GAP and HORTICOLE.



Available in 20 L drum

This coverage rate depends on spray equipment as well as work habits and may vary from 20 to 30 %.

Refer to the product datasheet for further information

### PRACTICAL COVERAGE







# OMBRASTOPREVERSO



## Alkaline solution to remove OMBRAFLEX REVERSO.

- ✔ Concentrated
- ✔ Adapted to glass and plastic greenhouses
- ✔ Spray application

To eliminate Ombraflex REVERSO at will, Ombraflex has developed a specific product **Ombrastop REVERSO**. It is sufficient to spray the cleaner on the greenhouse to remove **all of Ombraflex REVERSO**. The greenhouses will go back translucent, allowing to change cultures if needed.

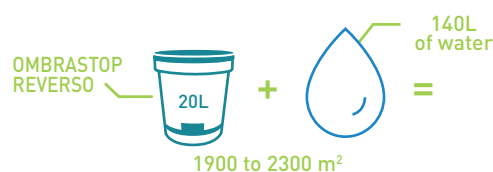


Available in 20 L drum

This coverage rate depends on spray equipment as well as work habits and may vary from 20 to 30 %.

Refer to the product datasheet for further information

### PRACTICAL COVERAGE



# PRODUCT COMPLEMENTARY



## Paint for hoop houses (PPA) Protection paint for plastic screens of agricultural greenhouses.

- Increases the plastic screen longevity (film, sheet, etc.)
- Protects plastics from overheating due to metal frames
- Can be applied on any kind of plastics
- Local use along metal reinforcement

Paint designed to locally protect plastic screens of agricultural greenhouses in contact with metallic structures and hoops.  
P.P.A. is the right product for functional maintenance or agricultural plastic greenhouses (flower and vegetable growers etc.).

Ready to use.

Refer to the product datasheet for further information



Available in 25 kg drum  
Available in 5 kg drum

# VARIOUS WEAR LEVELS OF SHADING PAINTS

Each **Ombraflex** paint has its own **shading intensity** (light, medium or high) and will depend on the crops growing in the greenhouse.

## Wear resistance

	OMBRAFLEX LIGHT	OMBRAFLEX STANDARD	OMBRAFLEX HORTICOLE	OMBRAFLEX GAP	OMBRASTOP REVERSO
LIGHT SHADING *	★ ★ ★ ☆ ☆ ☆	★ ★ ★ ☆ ☆ ☆	★ ★ ★ ☆ ☆ ☆	★ ★ ★ ☆ ☆ ☆	★ ★ ★ ★ ★ ☆
MEDIUM SHADING **	★ ★ ★ ☆ ☆ ☆	★ ★ ★ ☆ ☆ ☆	★ ★ ★ ★ ☆ ☆	★ ★ ★ ★ ☆ ☆	★ ★ ★ ★ ★ ★
HIGH SHADING *	★ ★ ★ ☆ ☆ ☆	★ ★ ★ ★ ☆ ☆	★ ★ ★ ★ ☆ ☆	★ ★ ★ ★ ☆ ☆	★ ★ ★ ★ ★ ★

\* Indicative data based on an average European climate





# DIFFERENT APPLICATION METHODS FOR SHADING PAINTS

## Manual application and with a machine

The **Ombraflex shading paints** must be applied in warm and dry conditions without risk of rainfall within the following 12 hours (see the technical data sheet).

The **Ombraflex** paints can be applied with a farm spray equipment manually or with a specialized machine, which is the most used method. The option is more economical and allows a regular product spreading on the surface to be treated.

### What material is required ?

- . An 8 to 12 m long boom sprayer, using a 1.5 Ø nozzle for the upper outflow, 1.2 Ø nozzle for the low outflow or with a spray lance : 1.5 to 2 Ø nozzle. Pressure : 10 bars.
- . Mist blower using a lance with a 1.5 to 2 Ø nozzle. Pressure : 8 to 10 bars.

## Airborne application (plane or helicopter)

For large areas **to shade**, it is possible to apply the product by plane or helicopter. Ask your sales representative for advice.



Discover our entire range by connecting to :  
**[www.ombraflex.com](http://www.ombraflex.com)**





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