



OMBRAFLEX

Thermal protection for your greenhouses

SHADING PAINTS

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Protection solution for your crops

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

Ombraflex succeed to become a specialist of the heating and lighting regulation inside 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 year.

To facilitate the shading paint elimination, Ombrastop Gel is the right cleaning solution, which enables a fast and less aggressive shade removal.

Ombraflex has also developed a special paint for hoop houses to increase greenhouse plastic cover life time for an active contribution to environmental protection.

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.

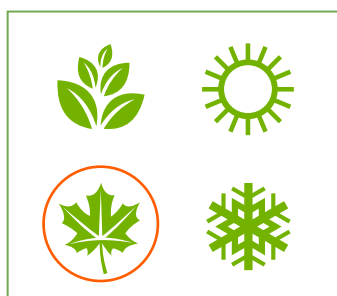


Moderate hold

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



PRACTICAL RECOMMENDATIONS



When can I use OMBRAFLEX LIGHT ?

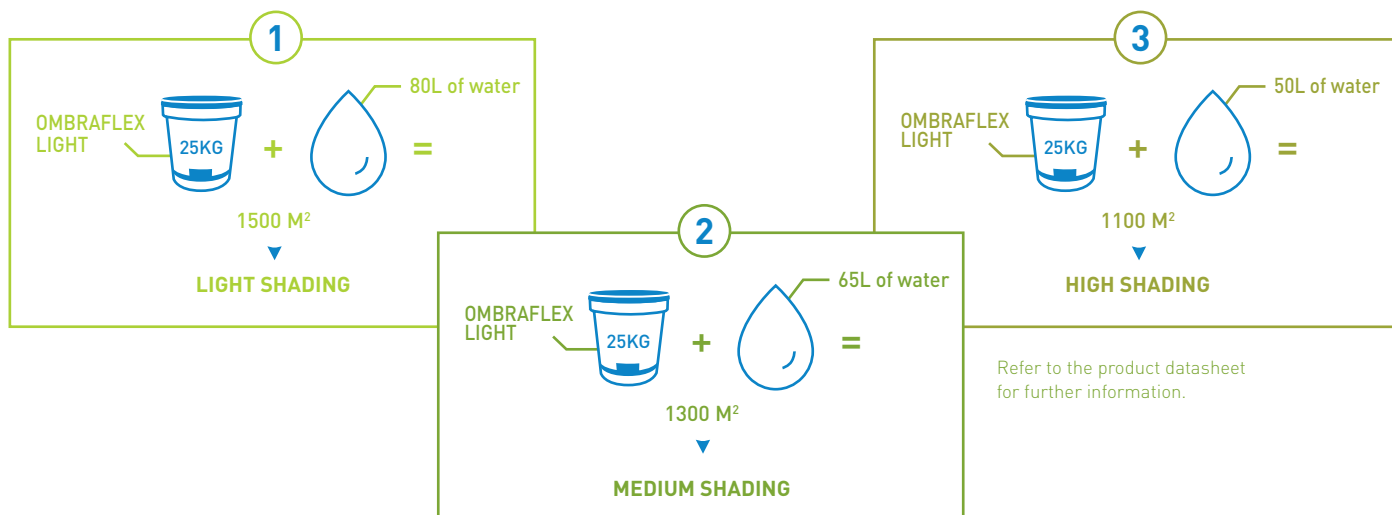
At the end of the season if heat is still extrem. Ombraflex Light will be eliminated faster in the early fall.

OMBRAFLEX LIGHT *	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	Light	Light	Possible / not advisable	Possible / not advisable	Not suitable	Not suitable
Market gardening	Not suitable	Possible / not advisable	Possible / not advisable	Light	Medium	High	Light	Light	Possible / not advisable	Possible / not advisable	Not suitable	Not suitable

* Indicative data based on an average European climate

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

COVERAGE & PERFORMANCES



SHADING INTENSITY	DILUTION	DRUMS/HA ⁽¹⁾	TOTAL REFLECTANCE (%) ⁽²⁾	PAR (% visible transmittance) ⁽²⁾	WEAR RESISTANCE (%) ⁽³⁾
LIGHT SHADING	1:5	7	45	52	☆☆☆☆☆
MEDIUM SHADING	1:4	8	51	46	☆☆☆☆☆
HIGH SHADING	1:3	9	65	32	☆☆☆☆☆

⁽¹⁾ Average value which can vary with the limit of 30% depending on needs and weather conditions. ⁽²⁾ These are guide values (achieved in laboratory) and may vary for measurements realized *in situ* depending on coverage and dilution applied. ⁽³⁾ 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 in 2,5L can



PRACTICAL RECOMMENDATIONS

When can I use OMBRAFLEX STANDARD ?

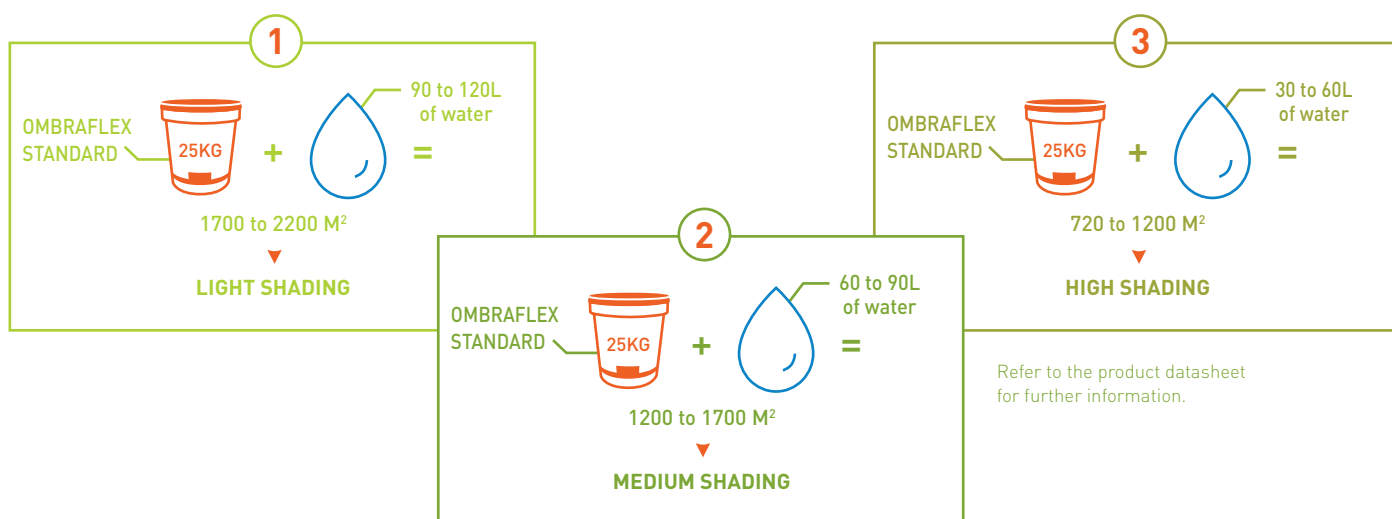
At the beginning of the season.

OMBRAFLEX STANDARD *	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Horticulture, plant nursering												
Market gardening												

* Indicative data based on an average European climate

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

COVERAGE & PERFORMANCES



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

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



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**
- ✔ **Biodegradable**

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.

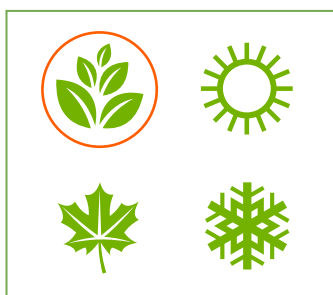


Reinforced hold

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



PRACTICAL RECOMMENDATIONS



When can I use OMBRAFLEX HORTICOLE ?

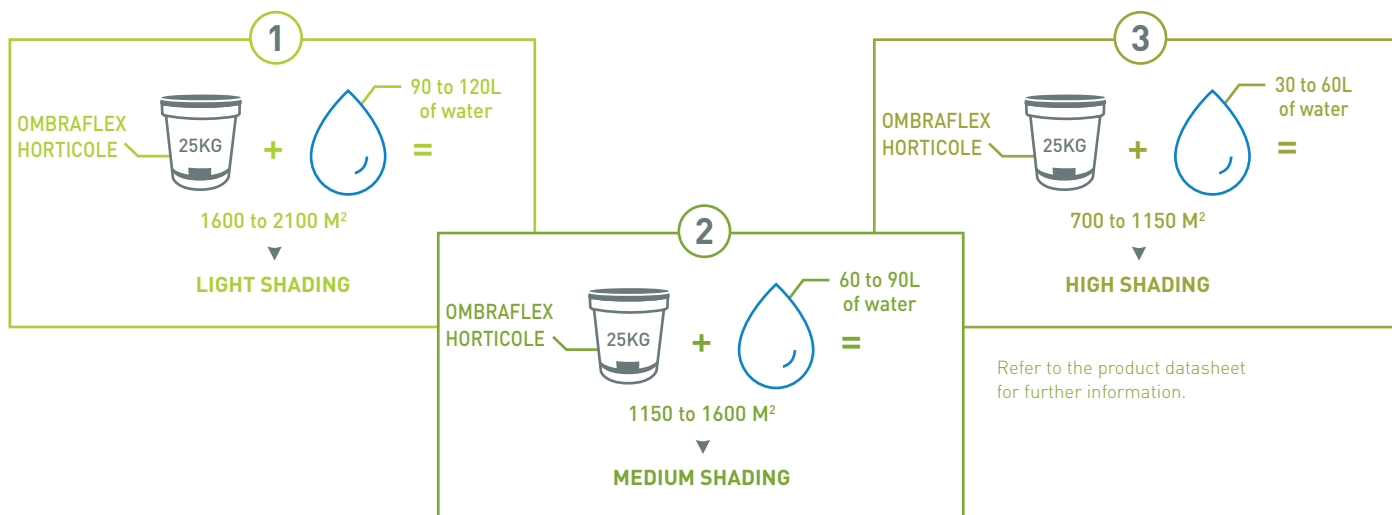
At the beginning of the season without a second spraying during the year.

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

* Indicative data based on an average European climate

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

COVERAGE & PERFORMANCES



SHADING INTENSITY	DILUTION	DRUMS/HA ⁽¹⁾	TOTAL REFLECTANCE (%) ⁽²⁾	PAR [% visible transmittance] ⁽²⁾	WEAR RESISTANCE (%) ⁽³⁾
LIGHT SHADING	1:7	5	46	51	
MEDIUM SHADING	1:5	8	56	44	
HIGH SHADING	1:3	12	66	31	

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



OMBRAFLEXGAP



Reinforced shading paint for farms 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**
- ✔ **Biodegradable**

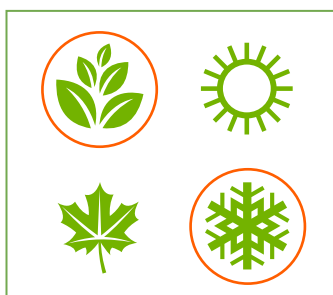
Like **Ombraflex Horticole**, **Ombraflex Gap** is an opaque and homogeneous shading paint, but is especially effective on plastic shelters. It is highly recommended for growing lamb's lettuce. Adapted to crops under large



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

* Indicative data based on an average European climate

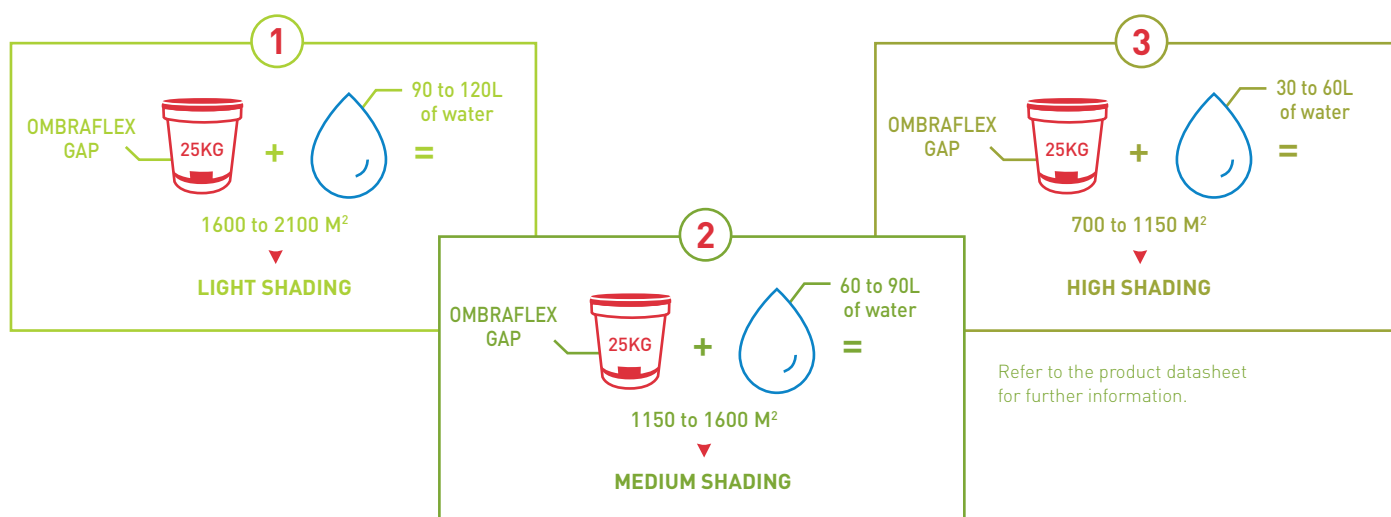
High sunlight regions

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

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

COVERAGE & PERFORMANCES








OMBRASTOP GEL



I Shading paint remover for greenhouses

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

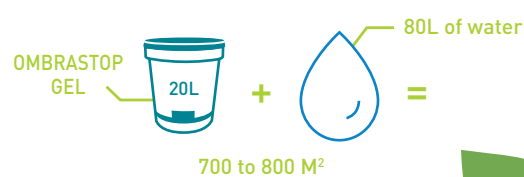
To eliminate the **Ombraflex** paints at the end of the shading season, Ombraflex has developed a specific shading remover : **OMBRASTOP GEL**. Sprayed on greenhouse, any Ombraflex paint residues will be removed. The greenhouses will become transparent again.



Available in 20L drum

PRACTICAL COVERAGE

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.

PRODUCT COMPLEMENTARY



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

- 🌿 **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
and in 5 kg can

I Various wear levels of shading paints

Each **Ombraflex** paint has its own **shading intensity** (moderate, standard or reinforced shading) and will depend on the crops growing in the **greenhouse**.

The wear of the shading paint film will then be based on the selected product, the dilution level for a more or less intensive shading and weather conditions of the area.

Wear resistance

	OMBRAFLEX LIGHT	OMBRAFLEX STANDARD	OMBRAFLEX HORTICOLE	OMBRAFLEX GAP
OMBRAGE LIGHT *	★ ★ ☆ ☆ ☆	★ ★ ★ ☆ ☆	★ ★ ★ ☆ ☆	★ ★ ★ ☆ ☆
OMBRAGE MEDIUM *	★ ★ ★ ☆ ☆	★ ★ ★ ☆ ☆	★ ★ ★ ☆ ☆	★ ★ ★ ☆ ☆
OMBRAGE HIGH *	★ ★ ★ ☆ ☆	★ ★ ★ ☆ ☆	★ ★ ★ ☆ ☆	★ ★ ★ ☆ ☆

* Indicative data based on an average European climate



I Different application methods of shading paints

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).

Manual application and with a machine

The **Ombraflex paints** can be applied with a **farm spray** equipment manually or with a **specialized machine**, which is the most used **method**. The second 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)

To **shade** large areas, it is possible to apply with a **plane or helicopter**. Seek advice from your sales representative.



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