

SGG MIRALITE® PURE *A pure reflection of nature*



SGG MIRALITE® PURE

A mirror with real conference for health and the environment.



SGG MIRALITE PURE remains true to the **core values** of Saint-Gobain Glass and conveys a dual message of real **awareness of health and the environment**.

Evidence of **ongoing innovation** at Saint-Gobain Glass, this new mirror combines superior quality with **unique environmental performance** (no lead is added to the protective paint and the use of solvents is kept to a minimum).

Its **high level of performance** – offering ease of edgeworking as well as exceptional quality and durability – **facilitates processing and helps ensure user comfort**.

Using only new glass for production, i.e. **sgg PLANICLEAR** with increased transparency and a clear, bright shade guarantees **pure and vivid colours** regardless of the lighting conditions. Additionally, the application of opaque glass expands the possibilities of interior design.

Light, space and design

Application

The properties of SGG MIRALITE PURE **enhance internal spaces** (increased light levels, conviviality, ambience complemented by original designs).

It is ideal for use **in the home** (bathrooms, hallways, etc.) and **in professional settings** such as offices, businesses, hotels,

restaurants, sports halls.

Available in different shapes to create new dimensions: framed or unframed mirror, wall cladding, item of furniture (table, cupboard door, shelf), signage.



Range

SGG MIRALITE PURE

Thickness (mm)	2		3		4			5		6		
	3 210 x 2 250	3 210 x 2 000	3 210 x 2 250	3 210 x 2 550	3 210 x 2 000	3 210 x 2 250	3 210 x 2 550	3 210 x 2 750	3 210 x 2 250	3 210 x 2 550	3 210 x 2 250	3 210 x 2 550
White	•	•	•	•	•	•	•	•	•	•	•	•
Extra clear					•	•	•				•	•
Brown			•	•	•	•	•					
Grey			•	•	•	•	•					

Manufacturing sizes:
 DLF: 3210x2000 mm, 3210x2250 mm, 3210x2550 mm, 3210x2750 mm
 HDLF: 1605x2000 mm, 1605x2250 mm, 1605x2550 mm, 1605x2750 mm

Tolerance on thicknesses:
 2, 3, 4, 5, 6 mm +/- 0,2 mm



Through its ultra-simple design and its composition free of lead and solvents, SGG MIRALITE PURE reflects a heightened awareness of health and the environment. Now more than ever, innovation is projecting the values of Saint-Gobain.

1 ton of recycled glass



Saves **250-300 kg** of CO₂

- 20%** less protective paint is required (only one coat).
- 30%** of the glass used is recycled.
- 30%** of water used in the manufacturing process is treated and reused.
- 100%** of the metals, rare earth and cullet used are recycled.

An optimized, resource-saving process



Reduction of energy consumption by **15%** in 5 years for glass production.

Double digit energy savings

10% less energy is required to produce the mirror, which avoids 270 tons of CO₂ emissions a year for each production unit.

270 tons of CO₂



equivalent to emissions of a 40 ton truck driving 200 000 km

Reducing emissions for cleaner air

Our glass and mirror production units are:

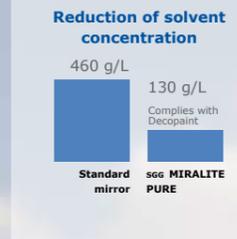
- Equipped with ESPs to reduce and treat dust emissions as well as CO₂ and SO_x
- Close to each other (no transportation)
- Located near customers to optimize logistics.

Improved working conditions

The paint contains **70%** less solvent and complies with the Decopaint Directive¹ (maximum content limit value: 130g/l).

Zero aromatic solvents (xylene).

A water-based paint is used, which limits odors and exposure to harmful substances. This way, safety of work at production lines is increased.



Ease of processing

SGG MIRALITE PURE lends itself to all types of cutting and edgeworking operations.

It does not flake or chip, nor does it contain volatile organic compounds (VOC)²

Advanced technology

SGG MIRALITE PURE offers superior quality and durability. At the same time, the levels of VOCs emitted to the interior air remain undetectable.

Being no-lead-added, it is easier to recycle in a glass furnace for instance.

Manufactured using clearer glass, SGG MIRALITE PURE is ideal for creating light-filled interior spaces.

Provided with an opaque, blue-coated backing, it is also perfect for creating backlighting effects (e.g. LED³).

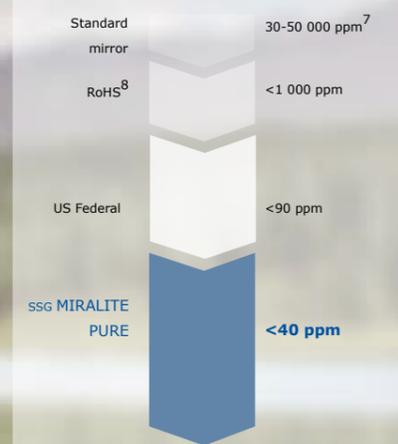
Proven top performances

Almost no VOC content detected in a single test.

	Total VOCs after 28 days	
	Total VOCs	Total formaldehydes ²
SGG MIRALITE PURE	< 10 µg/m ³	< 10 µg/m ³
AFSSET ⁴ /AgBB ⁵	< 1000 µg/m ³	10 µg/m ³

Measurements following ISO 16000 taken by EUROFINs test

Lowest concentration of lead⁶



Dry paint test following ISO 11885, take by TÜV⁹

Guaranteed longevity

	EN 1036 standard	SGG MIRALITE PURE
Neutral salt spray, ISO 9227 after 480H		
Maximum corrosion of edges	< 1000	50
Cupro-Acetic Salt Spray (CASS), ISO 9227 after 120H		
Maximum corrosion of edges	< 1500	250
Water condensation (EN 1036 – Appendix A) after 480H		
Maximum corrosion of edges	< 200	0

SGG MIRALITE PURE carries the CE mark and its performance is constantly monitored

Our mirror production units are certified ISO 14000 (environment), ISO 9001 (quality) and OHSAS 18001 (safety)

¹ The so-called «Decopaint Directive» (Directive 2004/42/EC, based on the Gothenburg Protocol) aims to limit VOC emissions due to the use of organic solvents in certain varnishes and paints, among other products, in order to prevent or reduce air pollution resulting from the contribution of VOCs to the formation of ground-level ozone.

² Volatile organic compounds (VOC) and formaldehyde are organic chemical substances that can be easily spread at room temperature. If their concentration indoors is too high, they can cause health problems (eye irritation, breathing problems, etc.).

³ LED: Light-Emitting Diode

⁴ AFSSET: Agency for Environmental and Occupational Health Safety (France).

⁵ AgBB: Committee for health-related evaluation of building products (Germany).

⁶ Lead is a powerful anti-corrosive agent traditionally used in paint applied to the back of mirrors. It is potentially dangerous to health and the environment.

⁷ ppm (parts per million): unit used to measure low concentrations of various materials. One ppm corresponds to a ratio of 10⁻⁶, i.e. one gram per ton.

⁸ RoHS: European Directive 2002/95/EC on Restriction of the use of certain Hazardous Substances in electrical and electronic equipment.

⁹ TÜV (Technischer Überwachungs-Verein): German inspection and standardisation agency certifying the safety and quality of products.

¹⁰ EN 1036: European standard concerning the quality of interior mirrors (glass in the construction industry).



Processing

Numerous edgeworking options

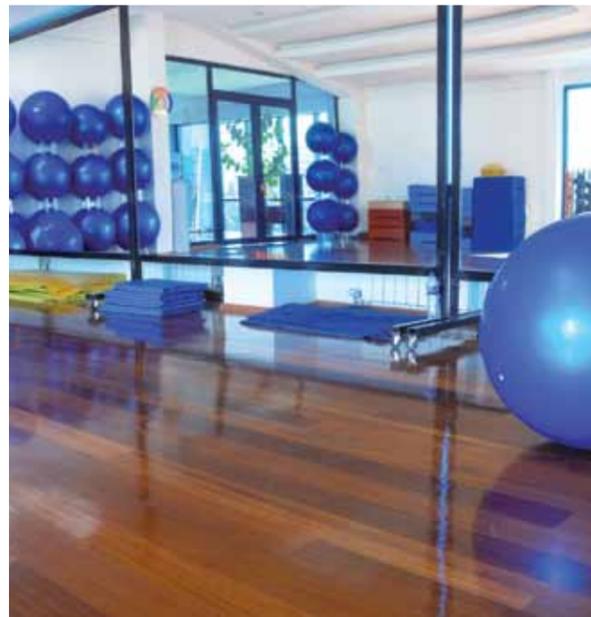
SGG MIRALITE PURE is suitable for cutting into all types geometric or non-geometric shapes. It can be drilled and edgeworked (bevel, chamfer, etc.).

SGG MIRALITE PURE can be customised with a logo, a sandblasted design, or engraved on the face opposite the coating.

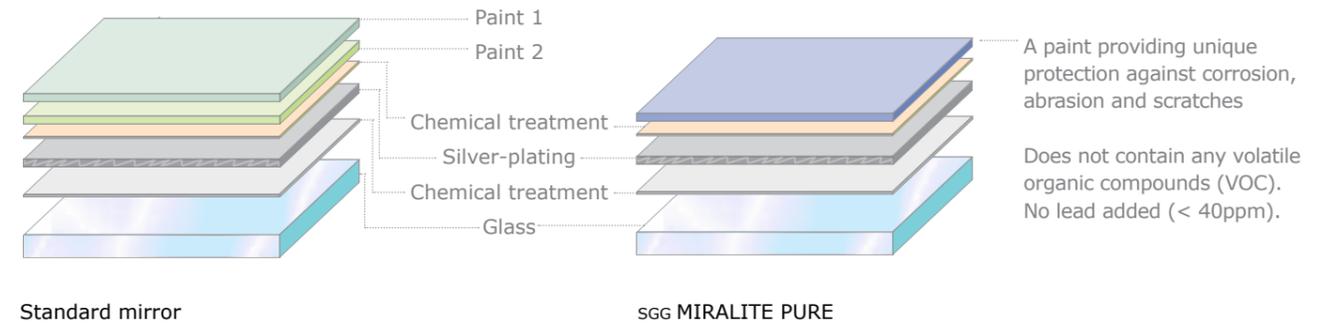
Optical performance

SGG MIRALITE PURE	
Thickness	% R _l minimum
3 mm	93
4 mm	92
5 mm	91
6 mm	89

Measurement of reflectance shall be undertaken in accordance with the principle of EN 410, but with the angle of incidence of the light within 8° of normal.



Mirror structure



Installation and maintenance – practical guidelines

Fixing

- Channel glazing in a frame**
 Ensure that the frame is clean and dry. Position the mirror on a counter on blocks at least 3 mm thick, to raise the mirror and avoid any contact with condensation water that might collect in the frame.
- Fixing pads**
 Provide suitable fixings. Avoid contact between the glass and metal by using plastic spacers and washers. Attach the mirror without applying excessive pressure.
- Adhesive fixing**
 Secure SGG MIRALITE PURE using a mirror adhesive (N.B.: ONLY USE an alcohol- or oxime-based neutral silicone*) or double-sided adhesive pads. Acidic adhesive are not recommended. Follow the instructions of the adhesive manufacturer.

* If there is any doubt whether the products used are neutral, it is essential to carry out a test on the paint.

Exterior installation

Please contact with Saint Gobain for details.

Maintenance

Do not use harsh products (acid solutions, highly alkaline or very abrasive materials). Ensure that

no residue from cleaning products is left around the edges.

Safety

SGG MIRALITE PURE must be installed in accordance with the current regulations.

In all cases:

- Irrespective of how the mirror is attached, ensure the following:
- Install the mirror on a supporting wall that is stable, clean and dry, free from harsh substances and absolutely flat.
- Provide sufficient space between the supporting wall and the mirror to ensure good ventilation (5 mm for mirrors less than 1 m tall; 10 mm for a larger mirror).
- Leave space of 1 to 2 mm between mirrors when they are installed side by side.
- Avoid placing the mirror near a source of heat (light, heating etc.).





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