



MIRALITE® PURE
ECOLOGICAL MIRROR CREATED
WITH RESPECT FOR HEALTH
AND THE ENVIRONMENT

MIRALITE® PURE

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MIRROR FREE OF LEAD AND SOLVENTS



MIRALITE® PURE fully adheres to the core values of Saint-Gobain, and conveys a dual message of health awareness as well as commitment to the environment.

The product of ongoing innovation at Saint-Gobain, MIRALITE® PURE combines superior quality with responsible environmental practices (no lead added and minimal use of solvents).

Made with high quality PLANICLEAR glass, it offers a high level of light and creates a neutral reflection, invaluable to interior design.

Its high-performance level and exceptional quality and durability facilitates a smooth and easy installation. More opaque than the standard mirror, it perfectly complements lighting.

LIGHT, SPACE AND DESIGN

APPLICATION

The properties of 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.

It can be customized in different shapes, framed or unframed, or used simply to line a wall or cover furniture.



RANGE

THICKNESS (mm)	3						4						5				6						
SIZES (mm)	1605 x 2000	1605 x 2250	1605 x 2550	3210 x 2000	3210 x 2250	3210 x 2550	1605 x 2000	1605 x 2250	1605 x 2550	1605 x 2750	3210 x 2000	3210 x 2250	3210 x 2550	3210 x 2750	1605 x 2250	1605 x 2550	3210 x 2250	3210 x 2550	1605 x 2250	1605 x 2550	3210 x 2250	3210 x 2550	
MIRALITE® PURE	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
MIRALITE® PURE DIAMANT																						•	•
MIRALITE® PURE ON PARSOL BRONZE GLASS																							•
MIRALITE® PURE ON PARSOL GREY GLASS																							•

Tolerance of thicknesses:

- 3mm, 4mm, 5mm and 6mm +/- 0,2mm



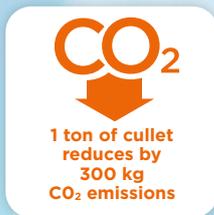
MIRALITE® PURE,

A GROUND BREAKING ECO-INNOVATION

Less impact at manufacturing...

PRESERVE MATERIAL & RESOURCES

Made of 30% of recycled glass (cullet).
Use 20% less paint (one single coating).



LESS INTENSIVE IN ENERGY & CARBON

Glass and mirror produced in the same plant to avoid transportation.



Reduced environmental and health impacts

LESS CHEMICAL USED

Water-based paint.
70% less solvent.
0 aromatic solvents (xylene) in the protective coatings.
Compliant with Decopaint Directive.⁽¹⁾



Reduction of solvent concentration



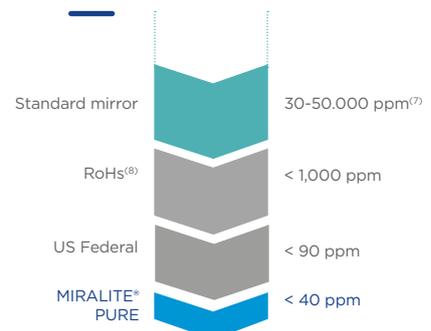
Proven top performances

ALMOST NO VOC CONTENT DETECTED IN A SINGLE TEST.

	Total VOC after 28 days	
	Total VOC ⁽²⁾	Total formaldehydes ⁽²⁾
MIRALITE® PURE	< 10 µg/m ³	< 10 µg/m ³
AFSSET ⁽⁴⁾ /AgBB ⁽⁵⁾	< 1.000 µg/m ³	< 10 µg/m ³

Test of VOC emissions along with ISO 16000 made by Eurofins.

LOWEST CONCENTRATION OF LEAD⁽⁶⁾



Through its ultra-simple design and its composition free of lead and solvents, MIRALITE® PURE combines superior quality with reduced impacts on **health and environment**. This Eco-Innovation is the reflect of Saint-Gobain commitment **to offer more sustainable products and solutions to its customers.**

while improving customers' benefits

EASY PROCESSING

Fits all types of cutting and edge working operations.

Does not flake or chip during processing phases.



ADAPTED TO RETRO LIGHTENED MIRROR

Provided with an opaque, black-coated backing, it is also perfect for creating backlighting effects (e.g. LED).⁽³⁾



Increased sustainability benefits

IMPROVED AIR QUALITY

Limits odors and exposure to harmful substances thanks to the water-based paint.

Extremely low VOC ⁽²⁾ emissions.



UNCHANGED SUPERIOR QUALITY AND DURABILITY

Durability exceeds by far the minimal requirements of the European Mirror standard (EN 1036)⁽⁹⁾.



Our mirror production units are certified ISO 140001 (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 2011/65/EU on Restriction of the use of certain Hazardous Substances in electrical and electronic equipment.
 (9) EN 1036: European standard concerning the quality of interior mirrors (glass in building).

GUARANTEED LONGEVITY

	EN 1036 standard ⁽⁹⁾	MIRALITE® PURE
Neutral salt spray, ISO 9227 after 480H.		
Maximum corrosion of edges (microns)	< 1,000	50
Cupro-Acetic Salt Spray (CASS), ISO 9227 after 120H.		
Maximum corrosion of edges (microns)	< 1,500	250
Water condensation (EN 1036 - Appendix A) after 480H.		
Maximum corrosion of edges (microns)	< 200	0

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

PROCESSING

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

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

OPTICAL PERFORMANCE

Thicknesses (mm)	% R _l minimum
3	93
4	92
5	91
6	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 3mm thick, to raise the mirror and avoid any contact with condensation 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.

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

MIRALITE® PURE must be installed in accordance with current regulations. It is often necessary to use a mirror with a safety film.

In all cases:

Regardless of how the mirror is attached, ensure the following:

Install the mirror on a supporting wall that is stable, clean and dry, free from aggressive chemicals and absolutely flat.

Provide sufficient space between the supporting wall and the mirror to ensure good ventilation (5mm for mirrors less than 1m tall; 10mm for a larger mirror).

Leave space of 1 to 2mm between mirrors when they are installed side by side.

Avoid placing the mirror near a source of heat (light, heating, etc.).

Adhesive installation

Please find below the list of adhesive installation materials that have been favorably tested based on adhesion performance using an internal testing procedure. SAINT-GOBAIN GLASS does not guarantee the chemistry and properties of adhesives or glues. In all cases, the installation must conform to the adhesive or glue manufacturer guidelines. SAINT-GOBAIN GLASS recommends to carry out preliminary tests to validate the suitability of the adhesive or glue.

Fixing with glues

Approved glues

BRAND	REFERENCES
ATE	SBR Bond
BEKO	Beko Tackcon Transparent
BOHLE	Xtragrip MS Polymer
BOSTIK	MSP 108 GT
BOSTIK	MSP 109 Professional
BOSTIK	Sil Espejos
CRL	Evergrip Mirror Adhesive EG310
DANALIM	Turbo Tack 291
DEN BRAVEN	Hercuseal Sealer 302
DEN BRAVEN	Mamut High Tack
DEN BRAVEN	Silicone NO
DL CHEMICALS	Paracol Mirrocell MS
DOW CORNING	817 High Modulus Adhesive
EGO	Der Spiegelkleber
FRATELLI ZUCCHINI	MS Super
HODGSON	Mirror Adhesive
HODGSON	Sifix U9
ILLBRÜCK	SP141
INTECNIA	Silcosell C-621
KAWO	SK86
KRAFFT	Silkra Espejos
LAKMA	Glue for ecological mirrors

BRAND	REFERENCES
OLIVÉ	G-64
OTTO-CHEMIE	Ottocoll M501
OTTO-CHEMIE	Ottocoll S16
PATTEX	SL 618 Solyplast
QUILOSA	Orbasil N32
RAMSAUER	660 Spiegelkleber
SODAL	Mirror Fix
WÜRTH	MS Instant Espejos
WÜRTH	MS Miroir

Fixing with double side tape

Approved adhesives

BRAND	REFERENCES
3M	4026
3M	4032
3M	4910F VHB
ADHEX	P270
BOHLE	Xtracryl
CEYS	Montack
LOHMANN	DuploCOLL 5009
LOHMANN	DuploCOLL 5015
LOHMANN	DuploCOLL 918
PATTEX	No más clavos
SAINT-GOBAIN TAPE SOLUTIONS	H-Old 8920
SAINT-GOBAIN TAPE SOLUTIONS	Norbond V1500
STOKVIS	S70 100
TESA	Powerbond
TESA	Powerstrip
VIBA	6606
WÜRTH	Mirror Adhesive Tape

More information on processing and assembling in MIRALITE® PURE processing instruction (www.saint-gobain-building-glass.pl). In all cases, installation must follow the instructions of the glue/adhesive manufacturer.



OUR SUSTAINABILITY JOURNEY

Our mission is to create great living places and improve daily life, while preserving the future of all.

This commitment is driven by our Glass Forever program, with the help of all our stakeholders: employees, customers, partners, suppliers...

From small streams to big rivers, our vision is to stand out as a growing business and to differentiate, while improving our environmental footprint and increasing our contribution to people's well-being.

Glass Forever!



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