

MIRALITE® PURE

NO LEAD ADDED
WATER-BASED MIRROR



MIRALITE® PURE

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 through increased light levels and creating a calm, welcoming ambience.

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

Manufacturing sizes:
See herewith

Tolerance on thicknesses:
2, 3, 4, 5 and 6 mm +/- 0.2 mm
8 mm +/- 0.3 mm

Thickness (mm)	2	3	4	5	6	8
	3,210 x 2,000	3,210 x 2,000	3,210 x 2,250	3,210 x 2,440	3,210 x 2,550	3,210 x 2,000
Clear	•	•	•	•	•	•
Bronze*		•	•	•	•	•
Grey*		•		•		•
Green*			•	•		•

* Longer lead times may apply, please speak to your account manager for more details.



MIRALITE® PURE

A GROUND BREAKING ECO-INNOVATION

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

Less impact at manufacturing... while improving customers' benefits



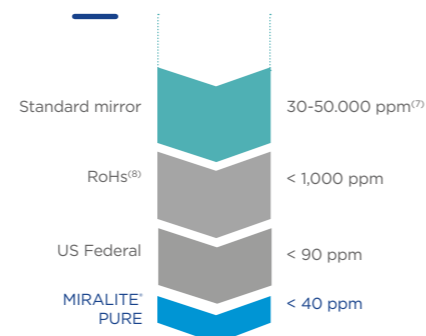
Proven top performances

ALMOST ZERO VOC CONTENT

	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⁾



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.

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).



PROCESSING

Numerous edgeworking options

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

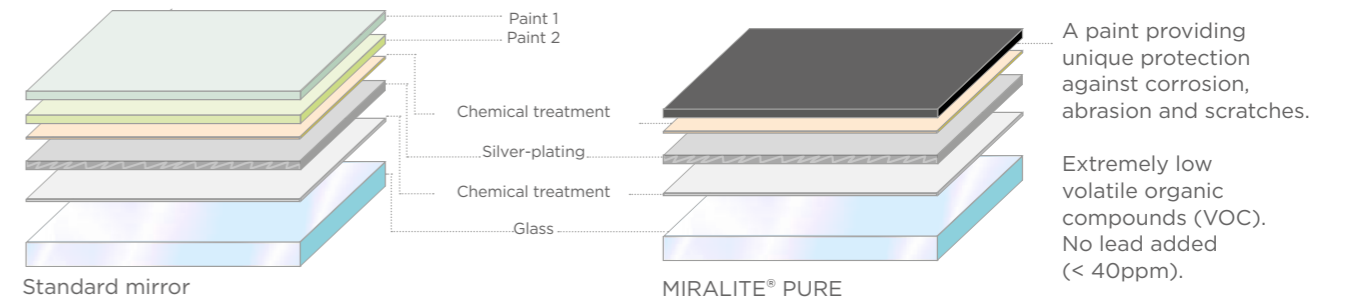
MIRALITE® PURE

Thicknesses	% R _f 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 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 installation

Fixing with glues
Approved glues

BRAND	REFERENCE
ATE	SBR Bond
BOSTIK	SIL ESPEJOS
BOSTIK	MSP 113 MIROIRS XTREM'FAST
BOSTIK	MSP 108 GTI
Den Braven	HERCUSEAL SEALER 302
Den Braven	HYBRIFIX 611
Den Braven	MIRRORFIX MS
Den Braven	MAMUT GLUE HIGH TACK
Dow Corning	817 HIGH MODULUS ADHESIVE
Fratelli Zucchini	MS SUPER
Hodgson	MIRROR ADHESIVE
Illbruck	SPO50
Illbruck	SP141
Intecnia	SILCOSEL C-621
Krafft	SILKRAF ESPEJOS
Lakma	Water-based glue for ecological mirrors
Olivé	OLIVÉ G-64
OTTO-CHEMIE	Novasil S 802
OTTO-CHEMIE	Novasil SP 5737
OTTO-CHEMIE	OTTOCOLL M 501
OTTO-CHEMIE	OTTOCOLL S 16
PATTEX	SL618 SOLYPLAST
QUILOSA	ORBASIL N32
SODAL	Soudal Mirror Fix
SODAL	Silirub 2S
Würth	MS MIROIR
Würth	SABESTO MS INSTANT ESPEJOS

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 (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, heat)

Fixing with double side tape
Approved adhesives

BRAND	REFERENCE
3M	4032
3M	4910 F VHB
3M	9087
ADHEX	P270
Ceys	Montack
H-hold	8920
Lohmann	Durabloc 230
Lohmann	Duplocoll 370
Lohmann	Duplocoll 5009
Lohmann	Duplocoll 5015
Pattex	No mas clavos
Saint-Gobain Performance Plastics	NORBOND V1500
Raytech	Supermount
Stokvis	S70100
Tesa	ACXplus
Tesa	Powerbond
Tesa	Powerstrips
Würth	MIRROR ADHESIVE TAPE

More information on processing and assembling in MIRALITE® PURE processing instruction (saint-gobain-building-glass.com). 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 and 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.



BUILDING GLASS

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SGG494/10/20