

MIRALITE PURE

Mirror installation and use instructions

This document contains important instructions and information regarding use of MIRALITE PURE.

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1. General information

The MIRALITE PURE mirror has been developed as a result of a continuous innovation process at SAINT-GOBAIN Group. The mirror combines high quality with exceptional concern for the environment (lead-free protective paint and a minimum of solvents).

PRODUCT FEATURES:

- Easy processing, quality and exceptional durability as well as performance translate into the highest comfort of installation and use.
- As only new PLANICLEAR base glass of improved transparency and a clear and neutral tint is used for manufacturing, it ensures that natural colours of objects visible in reflection can be saved.
- A single underlayer in a dark anthracite colour eliminates the overexposure effect when LED backlight is used.

MIRALITE PURE meets the requirements of the EN 1036-2:2008 standard. Every mirror panel is provided with the SAINT-GOBAIN manufacturer name, MIRALITE PURE product name as well as the manufacturing date and time printed on the protective varnish.

DURING THE USE OF MIRRORS, SEVERAL ESSENTIAL RULES MUST BE FOLLOWED:

- Avoid installation of the mirror in the vicinity of heat radiators (temperature over 45°C) – excessive heating of the mirror may result in damage to the coating or glass breaking.
- Take into account mechanical impact, e.g. mirrors mounted in doors and furniture fronts.

Avoid constant exposure to moisture (bathrooms are not classified as places with constant exposure to moisture). However, if it cannot be avoided, e.g. installations in gym or fitness rooms, riding halls, swimming pools, spa rooms, saunas and neighbouring rooms, or similar rooms in which extreme air humidity or corrosive vapours are present, we recommend the MIRASTAR coated glass. It provides reflection similar to that of mirror reflection.



2. Storage

In accordance with General Sales Terms, any damages resulting from transport should be reported to the carrier. If mirrors or the packages are affected by moistness, e.g. due to temperature changes during transport, remove damp material immediately and dry the mirrors prior to further storage.

RULES FOR STORAGE:

- Mirrors must be stored in vertical position (at an angle of up to 6 to 7 degrees). Pay attention to the box marking. In case of loose storage of the mirrors, thickness of a mirror package should not exceed 300 mm, as it provides proper air circulation.
- The mirrors should always face front. Never place mirrors with their varnished sides facing each other.
- Store the mirrors only in roofed, enclosed and dry rooms with heating up to approx. 10 °C during cold periods and vented during hot weather. Do not store mirrors in a direct vicinity of heat sources, corrosive materials or vapour sources (chemicals substances, solvents, fuels, acids, etc.).
- In order to prevent damage, store the mirror on a vibration-safe surface (wooden or plastic pads), standing only on the edge, not on the corner.
- For storage of mirrors, follow the FIFO rule, i.e. old supplies are to be used first.



3. Processing

The MIRALITE PURE mirror can be cut into any geometric and irregular shape. It can be drilled and subject to edge processing (oblique cutting, bevelling and sanding). MIRALITE PURE may be provided with an individual accent in the form of a pattern or logo by sand-blasting or engraving. For mirror processing, avoid aggressive acid solutions, strong bases or abrasive materials. Residues of the agents used during processing and cleaning must be removed from the finished product. In addition, take care of cleanness at mirror handling stations while cutting and processing.

- For mirror installation without ventilation of the rear side, sealing of the joint edge is recommended. It shall protect the mirror rear side from being affected by external conditions. Always observe manufacturer instructions regarding the bonding time of fixing agents before sealing of mirror edges.
- For multi-part mirrors, keep the right distance between the edges.
- For installation of mirrors in SAINT-GOBAIN stock dimensions, boarding of the panel is recommended.
- For installation of mirrors in profiles, usage of spacers between the mirror edge and the profile is recommended. Fixing materials should have no aggressive properties.

SELECTION OF THE FIXING SYSTEM

Selection of the mirror fixing system depends on applicable requirements, i.e. the purpose of the mirror, the surface on which the mirror will be installed, glass thickness and the impact of ambient conditions. Regarding all installations, in particular on ceilings, relevant safety rules should be followed.

THE MOST COMMONLY USED FIXING METHODS:

- chemical bonding agents
- mechanical fixing systems
- compound chemical/mechanical

Whatever the method adopted, make sure the fixing planes meet with each other precisely.

INSTALLATION INSTRUCTIONS AND VENTILATION

The mirror is prone to damage or corrosion, depending on the environment in which it is installed. Therefore, always observe the following installation rules:

- In order to ensure appropriate ventilation, the gap between the mirror and the base surface should be at least 5 mm for mirrors up to 1 m in height or 5 mm to 10 mm for higher mirrors. If the proper distance cannot be maintained, provide the best possible ventilation of the rear side by selecting the type and method of application of the fixing measure (vertical arrangement of adhesive tapes/adhesives, use of spacing brackets).



4. Mirror installation

4.1 BASE SURFACE PREPARATION

- The surface/base surface on which the mirror is installed should be clean, dry, free of moistness, acids residues, bases and other aggressive agents. The base surface should be primed.
- The base surface should be even and not subject to buckling. Avoid various expansion factors of the base surface, thus preventing deformation of the mirror image.
- It is recommended to test degreasing agents on a small mirror surface in order to prevent chemical damage/destruction of MIRALITE PURE water varnish.
- The rear side of the mirror should be properly prepared and degreased, for example with surgical spirit.
- Following instructions issued by assembly materials manufacturers is always recommended.

4.2 CHEMICAL FIXING SYSTEMS

The MIRALITE PURE mirror may be fixed using solely following chemical systems:

- a special adhesive for mirrors
- a neutral alcohol- or oxime-based silicone (in a natural colour)
- a dedicated double-sided adhesive tape

Acidic adhesives are not recommended. If any doubts regarding suitability of the adhesive exist, make a test on the varnish. Fixing materials (adhesives, silicone, tapes) should be applied

evenly on the surface in parallel vertical lines. Always follow instructions provided by the manufacturer of fixing materials.

4.3 MECHANICAL FIXING SYSTEMS

The MIRALITE PURE mirror can be installed with the use of mechanical elements, by means of:

- screwing with wall spacing
- special U-shaped rails
- magnets

4.4 TESTED FIXING MATERIALS

In response to numerous enquires submitted by our customers, SAINT-GOBAIN INNOVATIVE MATERIALS, GLASS Branch has conducted a test of selected fixing materials. The following fixing products have been successful in terms of adhesion and have shown no discoloration during a one-time laboratory test carried out in 2017. SAINT-GOBAIN Group is not the assembly materials manufacturer, and therefore it does not guarantee their neutrality and holds no liability for properties of the products specified in these instructions. In case of any doubts relating to the assembly materials, perform their test in accordance with the manufacturer's instructions.

GLUE / TAPE	BRAND	REFERENCE
GLUE	LAKMA	ADHESIVE FOR ECOLOGICAL MIRRORS ON A BASE OF WATER LACQUER
GLUE	DOW CORNING	817 HIGH MODULUS ADHESIVE
GLUE	SOULDAL	SILIRUB 2S
TAPE	TESA	ACXPLUS
TAPE	TESA	POWERBOND
TAPE	TESA	POWERSTRIPS

5. Maintenance

DAILY CARE OF THE MIRROR

In order to remove stains appearing during daily use, mirrors must be wiped using only a clean and soft cloth and a typical glass cleaning agent, which is neutral and contains no abrasive particles. The agents with acidic or basic substances cannot be used, as they can permanently damage glass surface. Strong stains, e.g. fat, cosmetics, etc. may be removed using chamois leather once washed in lukewarm water and squeezed. Once wiped, the mirror should not be wet, and no droplets may be left on the edges. To ensure durability of mirror coating, avoid permanent moisture deposition on the edge.

SAINT-GOBAIN INNOVATIVE MATERIALS took all possible actions to ensure that the information herein would be correct when submitted for publication. **SAINT-GOBAIN** reserves the right to change the content of this document in its newer version. **Note!** In case of use inadequate cleaning agents, the manufacturer shall not be liable for any possible damages of the mirror.





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