

Platia® Mirror Fabrication and Installation Guidelines and Compatible Materials

Platia® is a Copper Free mirror product line from Vitro which stands out due to its aesthetic beauty, ideal for any design. Created using environmentally friendly mirror processes, it provides greater durability in saline environments and has superior optical quality compared to conventional mirrors.

The Platia production process uses copper free technology that ensures mirrors are compatible with North American and European international ecological standards. Platia substantially exceeds the requirements established for mirrors in buildings in Standards: EN 1036, ISO 25537, CAN CGSB 12.5-M86 and ASTM C1503.

Optical performance

Minimum % Luminous Reflection

Mirror Product	2.5mm	3mm	4mm	5mm	6mm
Clear Glass	90.7%	90.1%	88.6%	87.4%	86.6%
Starphire® Glass	N/A	92.7%	92.6%	92.4%	92.2%

Platia Mirror Fabrication Compatible Materials

The following list of products are compatible for use during the fabrication process.

Compatible Cutting Fluid List			
Acecut 5503	Acecut 5929	Clean Cut Cutting Fluid	CoolCut
Glasol GB	Magslip 2100-E	Mineral Spirits	MMT-VO
Perfect Score 5503	Picoform 4704	Shellsol D60	
<i>Cutting fluids that are not on this list must be submitted to Vitro for evaluation</i>			

Use of materials other than those specifically included in this document as compatible will void the Platia warranty.

Compatible Grinding Coolant List			
DEUTERIO Mirror	DMC5GL Diamond Machine Coolant	DRYCOOL40	VETROCOOL Mirror
<i>Coolants that are not on this list must be submitted to Vitro for evaluation</i>			

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Fabrication In-Process Mirror Cleaning

The mirror glass surface can be cleaned with traditional automated glass cleaning equipment or by hand with conventional glass cleaning products designated for glass cleaning, but abrasive cleaning products should be avoided since they can damage the glass surface.

Clean the mirror edges and backing using water with a mild phosphate free detergent with a neutral pH or water with a dilution of 20% isopropyl alcohol.

- Do not use ammonia based products.
- Do not use rough, hard or aggressive products that can cause damage to the glass or backing material.
- Do not use highly acidic, highly alkaline or abrasive cleaning products. Make sure that there is no residue of cleaning products around the edges of the mirror.

The use of highly acidic, highly alkaline or abrasive cleaning products, with ammonia base or with corrosive agents could cause damage to the backing material.

Mirror glass that has been processed at its edges by cutting, sanding, polishing of the edges and/or beveling is recommended to have the edges sealed with a neutral pH product from the list below.

Compatible Edge Sealant List	
CRL Gunther Seal-Kwik Mirror Edge Sealer	
ES3G Mirart Mirror Edge Sealer	
S209 CRL Aerosol Mirror Edge Sealant	
<i>Edge Sealants that are not on this list must be submitted to Vitro for evaluation</i>	

Installation Guidelines

The following guidelines are offered as a means to minimize mirror damage with different installation methods;

Installation in aluminum or wood frames

Make sure the frame is clean, dry and free of contaminants and oxidizing agents. Place the mirror with neoprene shims of a minimum of 3mm thickness to separate the mirror glass from the frame and avoid any contact with water condensation that could accumulate in the frame.

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Installation using mounting hardware

Provide adequate fasteners for the glass mirror thickness. Avoid contact between the glass of the mirror and the metal of the fastener by using plastic spacers and/or washers. Mount the mirror by utilizing minimal pressure to tighten the fastener, do not over tighten since glass damage may occur. Follow fastener manufacturer instructions.

Installation using adhesive

Vitro provides a list of compatible adhesive products for installing the Platia mirror directly to a mating surface. Always follow use instructions of the adhesive manufacturer. (It is recommended that a pre-sealant be utilized on the mating surface in order to prevent migration of highly acidic, highly alkaline and/or corrosive contaminants from the mating surface to the mirror backing.)

Compatible Adhesive List	
Gunther's Extra / Build	Gunther's Premier Plus Mirror Mastics
Gunther's Ultra / Bond	Palmer Mirro-Mastic®
Palmer QwikSet Mirro-Mastic®	Universal Products Uni-Cal Vinyl Film
3M™ VHB™ G23F Structural Glazing Tape used with 3M™ Primer 94 adhesion promoter on the mirror backing <i>(Consult with 3M to verify this product is suited for the installation application)</i>	3M™ VHB™ 4941 Tape family used with 3M™ Primer 94 adhesion promoter on the mirror backing <i>(Consult with 3M to verify this product is suited for the installation application)</i>
3M™ VHB™ 4611 Tape family used with 3M™ Primer 94 adhesion promoter on the mirror backing <i>(Consult with 3M to verify this product is suited for the installation application)</i>	3M™ VHB™ RP Tape family used with 3M™ Primer 94 adhesion promoter on the mirror backing <i>(Consult with 3M to verify this product is suited for the installation application)</i>
DOWSIL™ 795 Silicone Building Sealant <i>(Dow recommends that vertical strips of sealant be applied to the backside of the mirror so that condensation can drain, and the cure byproducts of the sealant can escape.)</i>	3M™ Scotch-Weld™ Multi-Material and Composite Urethane Adhesive DP631ONS <i>(Certain wall mating surface limitations apply, see 3M for more info)</i>
3M™ Scotch-Weld™ Urethane Adhesives 3535B/A, 3532 B/A and 3549 B/A <i>(Certain wall mating metal surface preparation recommendations apply, see 3M for more info)</i>	3M™ Scotch-Weld™ Epoxy Adhesive DP105 <i>(Certain wall mating surface limitations apply, see 3M for more info)</i>
Productos Pennsylvania pegaset® Multipurpose Adhesive	Productos Pennsylvania pens® HI-BOND Adhesive
Adhesives that are not on this list must be submitted to Vitro for evaluation	

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All installations must ensure that:

- The mirror is installed on a wall or mating surface that can support the weight of the glass mirror and is flat, stable, clean, dry, and free of hard and/or corrosive substances.
- Provide sufficient space between the supporting wall/mating surface and the mirror to ensure good ventilation [3/16” (5 mm) for a mirror of less than 39” (1 m) in height, 3/8” (10mm) for mirrors larger than 39” (1 m) in height.]
- Leave a minimum space of 1/32” to 1/16” (1 to 1.5mm) between mirrors when they are installed next to each other.
- Avoid placing the mirror near a heat source.

Care and Maintenance

The installed mirror should be routinely cleaned with products specifically designed for cleaning of glass surfaces. Abrasive type cleaning agents should be avoided since they can damage the glass surface. With any cleaning agent, contact with the edges and backing material should be avoided. If contact occurs, quickly remove the cleaning agent and clean with water to prevent a potential reaction with either edge sealing agents or the backing material. Do not allow cleaning agents to collect in framing systems or mounting hardware that could inadvertently allow continuous exposure to the edges.

HISTORY TABLE		
ITEM	DATE	DESCRIPTION
Original Publication	08/16/2018	Initial release
Revision 1	08/30/2018	Added 3M VHB 4941, RP and 4611 tape families to Compatible Adhesive Lists. Added Guidelines to title, modified in-process cleaning section, added “Installation Guidelines” section ahead of Compatible Adhesives List, added “Care and Maintenance” section and changed acceptable to compatible.

This document is intended to inform and assist the reader in the application, use, and maintenance of Vitro Flat Glass products. Actual performance and results can vary depending on the circumstances. **Vitro makes no warranty or guarantee as to the results to be obtained from the use of all or any portion of the information provided herein, and hereby disclaims any liability for personal injury, property damage, product insufficiency, or any other damages of any kind or nature arising from the reader's use of the information contained herein.**

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