Installation and Care Instructions for HelioSilver Exterior Solar-Control Window Films

1. General Information

- ORAGUARD® HelioSilver exterior solar-control window films provide excellent solar protection, reduce heat build-up in buildings, are fully compatible with the vast majority of glass types and feature a highly scratch-resistant surface coating.
- Requirements for Successful Installation
- Ambient temperature: 10°C-30°C
- Dry weather conditions with little wind
- A clean, grease-free and undamaged glass surface
- Depending on the size of the pane, two installers are recommended to ensure smooth application

2. Installation Instructions

2.1 Required Tools

- Spray bottle containing application solution (5-10 drops of baby shampoo per litre of water)
- Heavy-duty handled squeegee (approximately 12-15 cm wide; suitable for safety film installation)
- Sharp utility knife with spare blades (45°)
- Glass scraper
- Ruler or cutting guide
- Glass cleaner and lint-free cloths
- Silicone sealant for exterior applications (neutral-curing and UV-resistant) or, alternatively, ORAFOL edge-sealing tape
- Two small pieces of adhesive tape per pane to assist with release-liner removal

2.2 Preparing the Glass Surface

Cleaning the glass: First clean the window frame using suitable materials such as microfibre cloths. Use a solution of water and a pH-neutral cleaning agent, such as baby shampoo. Never use washing-up liquid containing skin-conditioning additives. Use professional window-cleaning tools, such as a washer sleeve and squeegee, and thoroughly remove dirt, dust and grease residues.

Then spray the exterior surface of the pane with a commercially available glass cleaner. Working wet, systematically remove even the smallest dirt particles, firmly adhering pollen and insect residues using a glass scraper and lint-free industrial paper towels.

Inspect the surface: Completely remove any remaining sealant, gasket or silicone residues and ensure that the glass is undamaged.

Then spray the glass surface again with the application solution and squeegee it dry without leaving water marks. Spray it once more immediately before installing the film.

2.3 Step-by-Step Installation

Prepare the film: Rough-cut the film approximately 2 cm larger than the glass on all sides. Alternatively, precision-cut it to the finished size: glass dimensions minus 4-5 mm in both height and width.

Clean the glass thoroughly as described above and dry it with a window squeegee.

Wet the glass: Spray the glass surface again with the application solution.

Remove the release liner: Apply one piece of adhesive tape to each side at one corner and slowly separate and peel off the liner.

Wet the adhesive side: While removing the release liner, generously spray the exposed adhesive with the application solution.

Apply the film: Place the adhesive side of the film onto the glass and position it carefully. As long as sufficient application solution remains between the film and the glass, the film can be aligned and repositioned easily.

Spray the film surface with the application solution.

Remove water and air bubbles: Using the squeegee, thoroughly push the liquid out from beneath the film in horizontal strokes from the centre towards the edges. Start at the top and finish at the bottom. During the initial squeegee pass, leave a small distance from the rubber or silicone glazing gasket.

Trim excess film: If the film has not already been precision-cut, trim it along the frame. Use a cutting guide or edge ruler and maintain a gap of approximately 2-3 mm from the window gasket.

Final cleaning and squeegeeing: Spray the film surface again around the edges and squeegee out any remaining water. Wait briefly, then carefully absorb and wipe away any residual moisture with a lint-free cloth.

Edge sealing: Once the film edges are completely dry, or after a drying period of 24 hours, seal the film edges with silicone (approximately 3-6 mm bead width, depending on the gasket) or with edge-sealing tape. Never apply the edge-sealing tape to the gasket.

Please note:

- Partial application to a pane of glass is not permitted.
- The films must not be applied to glass panes thicker than 10 mm.
- Combining two or more different types of film on the same pane is also not permitted.
- The film strips must not overlap. Where a seam is required, use a vertical butt joint with a gap of approximately 0.5-1 mm.

3. Care and Cleaning

- Do not clean the film for the first 30 days after installation.
- Use only mild, non-abrasive, alcohol-free cleaning agents .
- Do not use sharp objects or pressure washers .
- Clean at least twice a year , and more frequently in areas exposed to high levels of environmental contamination.

4. Film Removal

- Ambient temperature: between 15°C and 30°C .
- First remove the edge-sealing tape. For silicone-sealed edges, carefully cut the silicone free on the glass along the rubber gasket.
- Cut the film into vertical strips 10-20 cm wide and peel them off evenly, together with the silicone where applicable.
- Remove any adhesive residues using isopropyl alcohol or glass cleaner and a glass scraper.
- Recommended peel angle relative to the glass surface: 45°-180°.

Following these instructions will help ensure a professional and effective installation.
For further questions regarding the application or removal of ORAFOL films, please contact our Customer Support team.

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ORAFOL Europe GmbH
Orafolstraße 1, D-16515 Oranienburg, Germany

Tel.: +49 (0) 3301 864 0
Fax: +49 (0) 3301 864 100
graphic.solutions@orafol.de