

Introduction

The following are general instructions for applying ORAGUARD Paint Protection Films to painted vehicle surfaces

Storage Conditions

ORAGUARD 2815 Paint Protection Film, supplied in rolls, should always be stored suspended or standing on end with provided roll blocks. NEVER store material lying on its side. Materials should be kept in a cool dry place. For optimal product performance, relative air humidity should be between 50% and 60% and temperature between 64°F and 72°F. Avoid storing material in direct sunlight or near excessive heat (i.e. radiators). Please observe the shelf-life instructions contained in the technical data sheet available for each film at orafol.com.

Cleaning the Application Surface

The substrate should generally be cleaned with conventional cleaning agents. It should always be assumed that the surface is contaminated with dirt.

- Hand washing the surface is recommended for the best results. Do not use substances attended to form a coating or sealing layer by means of nanotechnology.
- Thoroughly check surfaces and edges for residue of preservative wax or polishing agents and remove them with industrial cleaning agents or silicone remover.
- The surfaces to be bonded must be cleaned with ORAFOL® Pre-Wrap Surface Cleaner. This will remove most efficiently all residues of previously used cleaning agents (mineral spirits is not recommended).

Note: Solvent residues, which are a result of improper cleaning, or a recent paint job may result in blisters forming between the film and the base, affecting adherence. Make sure that films are only bonded to completely dry and hardened coating finishes. As a rule of thumb, allow a minimum drying period of six weeks.

Bond Testing to Application Surface

After cleaning the vehicle, it is absolutely necessary to perform a bonding test and to check the final bonding strength of the film after 24 hours. For comparison purposes, we recommend bonding the film at the same time on an uncritical surface (such as a window pane). Should the bonding strength be too high or gas bubbles form, the cleaning procedure must be repeated. The same applies if the bonding strength is inadequate.

Application of ORAGUARD 2815 Film

For the best application results, surface and ambient temperatures should be between 65°-75°F; with humidity levels resting between 50 - 70%. ORAGUARD Paint Protection Films should never be applied at temperatures below 50°F. Colder temperatures and lower humidity levels will result in the material feeling more rigid and adhesive less tacky. It is recommended that a wet application method be used to apply ORAGUARD Paint Protection Films using either soapy water or our ORAFOL Application Gel. The gel has the advantage that the adhesive strength increases slowly, which means that it can be repositioned easily. An additional advantage is that an application gel does not run off on vertical surfaces.

Note: To apply with soapy water, the recommended mixture is 1 to 3 ml of pH-neutral soap per liter of water.

- Spray the application surface and the open adhesive side with your choice of soapy water or ORAFOL Application Gel. This will allow a better repositioning of the film on the surface.
- Using a silicone or TPU squeegee, press down the film with overlapping wiping movements; making sure that the water/gel trapped between the film and surface is completely pressed out.
- Any cloudiness of the adhesive developing after the application usually disappears after 3-5 days, i.e. once the residual moisture has evaporated and the adhesive has reached its ultimate bond strength. Depending on the ambient temperature and relative humidity this process can take up to two weeks.

After Completion of the Work

The vehicle should be kept in ambient installation temperature for a least 24 hours after installation is completed. In case of dark bases, a light haze may persist. After about 3 days the film has reached its optimum ultimate bond strength. Wait at least three weeks before treating the film-coated surfaces with polishing agents. Only wax-free water-based plastic polishes should be used.

Removal Process

The pre-condition for removing the film is a base and ambient temperature no less than 68°F. Carefully remove the film at an edge and pull the film towards you at a shallow angle less than 60°. The use of a heat gun or steamer speeds up this process. In case of very old films, adhesive residues may stay on the surface, which are easily removed with adhesive remover.

Reduction of Expected Service Life

Please be advised that a reduction in expected service life can occur in the following instances:

- When used on unsuitable substrates
- If the substrate has not been sufficiently cleaned
- When exposed to high temperature and/ high humidity
- If the films are not cleaned regularly, e.g. if insects or bird droppings are not removed promptly
- At a high degree of air pollution, e.g. in industrial areas or in large cities
- When exposed to high UV exposure, e.g. at high altitudes

Note: These Processing Instructions are based on our know-how and experience. They do not comprise explanations of every aspect to be considered during film bonding. Specific know-how and skills of advertising technicians or bonding specialists are expected. Because of the wide range of factors influencing processing, bonding and use, we advise you to perform your own tests for special applications. A guarantee of specific properties cannot be derived from this information.



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