Application Instructions for PrismaPro™ Color Paint Protection Film

Instructional Bulletin #4.40 (Revision 0)
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1.0 Overview

PrismaPro™ color Paint Protection Film (PPF) material is a next generation color paint protection film engineered for professional dry application. This instructional bulletin provides information and recommendations for the successful installation of this innovative product. It combines vibrant color and robust paint protection in a seamless, efficient dry-apply process.

- **Important Note:** As with all graphics films, avoid using hard solvents directly on the film's surface during or after application.
- Before applying the product, consult the appropriate product data sheet for information regarding appropriate substrates and product performance. Once assured that all factors are understood with respect to the product, and all factors comply with the product specifications, you can apply the PrismaPro Paint Protection Films.

2.0 Storage conditions

Avery Dennison® PrismaPro Paint Protection Film should be stored at a Temperature of 70°F (±2°F) with 50% RH (± 5%), in the original package and in a vertical position.

Once the roll has been opened and if storing a partial of film is necessary, make sure to tape down the leftover roll tail with sufficient tension to avoid tunneling. Ensure the material is tightly wound around the core and the leading edge is taped down to prevent adhesive imperfections. Improper storage can lead to a loss of performance and difficult application. It is recommended to use four tabs of rigid PET tape on top, bottom, and middle of the roll and wind tightly prior to applying the tape. Alternatively, the cap sheet may be stripped from the entire roll of film. The roll should still be rewound with sufficient tension and stored properly.

Proper storage allows the film to keep its maximum performance and also enables a hassle-free application. The user assumes all risk and liability for the loss of performance, when the film is stored improperly by the user. Improper shall mean that the user did not store the Avery Dennison Paint Protection Film in accordance with the aforementioned instructions.

3.0 Application Tools

- Tool belt – to hold all application tools
- Lint-free microfiber cleaning cloth
- Clay bar with recommended lubricant
- Spray Bottle
- Isopropyl Alcohol (IPA) for cleaning
- Squeegee with ultra slick buffer (Wet Edge squeegee, Banana Buffer or similar)
- Flextreme micro squeegee
- Cutting Tools
    - Knife with stainless steel break off blades
    - Cut tape for PPF film
- Ultra slick wrap glove (WrapGlove® GHOST® glove or similar type)
- Professional Heat Gun - for relaxing the film and locking the edges (DO NOT USE A TORCH)

- Tack reducing product - optional (silicone free)

4.0 Preparation and cleaning of the surface

The vehicle surface must be OEM paint in good condition and cleaned thoroughly to remove all dirt, grime, grease, oil, wax, polish, and other contaminants. A clean, smooth, and dry surface is critical for proper adhesion.

- **Cleaning**
    - Do a pre-cleaning wash to remove all dirt and grime. For this step use a water and detergent solution.
        - Special attention should be given to critical areas such as edges, corners, welding seams, rivets and the like.
        - Depending upon the level of contamination, the cleaning process may need to be repeated to ensure that the surface is fully prepared for application.
        - Many other commercially available cleaning/degreasing products may be suitable for cleaning and degreasing but need to be tested prior to use
    - Car wax, polish and ceramic coating residues must be completely removed.
    - Allow the vehicle to fully dry, using a compressed air gun to remove any trapped water or dry with a lint free cloth
    - Do not use any polishes, waxes, or tire shining agents post-wash
- **Clay Surface**
    - Use a professional clay bar or eraser pad with a recommended lubricant to remove any hard-bonded contaminants.
    - The clay bar will help remove contaminants on the clear coat to ensure the surface is completely smooth.
- **Final Surface Cleaning**
    - The final cleaning on the vehicle should always be with 70% Isopropyl Alcohol
    - Pay special attention to recesses, corners, and panel returns.
    - Allow the vehicle to fully dry, using a compressed air gun to remove any trapped water
- For extra information on preparation and cleaning of application surface, additional instructions are provided in Instructional Bulletin 1.10

- **IMPORTANT NOTE**
    - PrismaPro™ Color PPF is intended and warranted for use on fully cured OEM (Original Equipment Manufacturer) vehicle painted surfaces. Paint should be in “like new condition”. Defects in the paint such as scratches, dents, and orange peel may be visible once the film has been applied.
    - If heavy orange peel is present on the vehicle it is recommended to perform a professional paint correction prior to installing the PrismaPro™Color PPF.
    - If the vehicle does have non OEM paint, removal of Avery Dennison Paint Protection Film without paint damage is not warranted.
        - If a non OEM paint system is used, all painted surfaces must be fully dry, cured, hardened free of scratches, defects or contamination prior to film application. For most automotive refinishing systems utilizing a bake process through the flash and cure phases, films may typically be applied after the paint has fully cured and has returned to ambient temperature. For air dried or repair paint systems, always consult the paint manufacturer’s recommended cure schedule before application. Residual solvents trapped within the paint system may negatively affect adhesion and can result in excessive shrinkage, bubbling or blistering.
        - Painted substrates should be dried according to the paint manufacturer’s instructions to avoid solvent retention. Paint system components which are not compatible or do not adhere properly to each other may cause paint to be lifted when films have to be removed after use.

5.0 Temperature

Temperature plays an important role in how well a film adheres to a substrate. Follow the guidelines toward minimum and maximum application temperatures and required service conditions before and after application. This information can be found in the Product Data Bulletins for each film being used.

- To avoid contamination in the wrap it is important to do the application indoors in a controlled environment. This helps control the temperature and will also reduce the amount of wind, dust and other contaminants.
- It is important to monitor both the ambient and surface temperature as both can have an affect on the application. Higher temperatures will make the film soft and more pliable. The

high temperature also makes the adhesive more aggressive, which can lead to pre-tack and increased stretching if it is necessary to reposition the film. Lower temperatures will make the film more rigid and reduce the tack of the adhesive.

- Ambient Air Temperature - Air temperature of environment
- Surface Temperature - Substrate temperature of vehicle or surface

6.0 Installation of the film

Avery Dennison PrismaPro™ Color PPF is designed for **dry application** only. Do not use any slip solution, mounting fluids, or soap/water on the adhesive side of the film during this process. The Avery Dennison **IntelliTack™ Technology** provides a responsive tack for professional, precise placement.

6.1 Positioning

1. Before starting the application, wash your hands, to avoid fingerprints on the adhesive and ensure that the Avery Dennison Paint Protection Film is applied in a clean, dust-free and well lit environment.
2. Film panels will be installed and trimmed one panel at a time to ensure full coverage. Measure and cut the film to size from the roll, ensuring it's 2-3” larger than the panel on each edge. For large flat areas the cap sheet can be left on, however for areas where the film needs to conform to the vehicle surface it will be necessary to remove the cap sheet.
3. Position the film on the panel using tape. Magnets can leave imperfections in the surface of the film, if they are used be sure they are placed in the bleed areas of the panel.
4. Carefully separate the liner from the film. (Avoid touching the adhesive surface as much as possible.) For large panels it is not recommended to completely remove the liner from the panel. Remove a portion of the liner to begin installing the first section of the film..

6.2 Application

1. Once the material has been positioned, gently start to squeegee the film. Work from the center of the panel to the outside edges. Overlap the squeegee strokes by about 50% to

avoid remaining air entrapment.

- It is recommended to use the “wet face” application method to help lubricate the squeegee so it glides smoothly on the film surface. A solution made from baby shampoo and water works well. Take care not to get the solution on the adhesive side of the film.

  NOTE: Re-positioning of the film is only possible in the stage of positioning and low squeegee pressure. If done in a later stage small marks or lines might remain visible in the film surfaces. When rerepositioning pop the section of the panel using a quick upward and away force.

2. For curved or contoured areas, apply steady, controlled tension to allow the film to naturally conform to the surface. Identify and establish anchor points, locations where the adhesive can be activated with pressure to hold alignment then continue working across the panel. Whenever possible, rely on the film’s intrinsic elasticity rather than heat to achieve conformity. If additional pliability is needed, use hands to assist in forming, or a low-temperature heat gun (below 130°F / 55°C) to gently relax the film before applying pressure. Always stretch gradually and evenly;
   - NOTE: With dry-apply PPF, adhesive activation occurs through mechanical pressure. Use soft to medium overlapping squeegee strokes to lock the film in place once alignment and tension are correct.
3. This film is designed to be stretched and conformed at room temperature, using heat will naturally start the curing process, which will increase the initial tack of the adhesive. This can cause glue lines. Additionally, heat plus pressure can cause the air egress pattern to show through.
   - NOTE: Overheating the film in the wrong areas can cause pattern show through and also burn the topcoat, it is essential you follow the proper techniques to get a flawless finish.
4. Conventional convex and compound shapes on car fronts are mostly suitable to be covered with Avery Dennison Paint Protection Films, but in some deeper corrugated shapes it may be necessary to make use of inlays in order to avoid over stretching the film.

6.2.1 Seams and Overlaps

To ensure optimal adhesion and durability, maintain a seam/inlay overlap of 0.25" to 0.5". Strategic placement along the vehicle's natural body lines is highly encouraged to minimize visual impact and produce a factory-integrated appearance.

6.2.2 Tack Reducer

The PrismaPro film has an initial tack that is higher than traditional wrap films. Some installers may find this challenging and require a tack reducer to help with the installation. GTECHNIQ Quick Detailer V2 has been tested and approved by Avery Dennison to be used as a tack reducer. This product is recommended on horizontal surfaces to help reduce the initial tack of the PrismaPro adhesive during installation. The solution is sprayed onto the surface of the vehicle then wiped off and dried using a lint free towel. It is important to note that the tack reducer should be kept away from the edges of the panel as well as away from recessed areas as this could cause adhesion issues.

NOTE: Products containing siloxanes MUST be avoided as they have proven to cause adhesion issues with the film.

Alternatively if the GTECHNIQ is not available, a DIY tack reducer can be used. The recommended mix is:

- 32 oz Distilled water
- 4 ml 99% IPA (or 5.7 ml of 70% IPA)
- 0.5 ml of J&J Baby Shampoo Soap Solution

Like the GTECHNIQ, this solution would be applied to the surface of the vehicle and then wiped off and dried with a lint free towel.

6.3 Finishing Edges and Trimming

Once the film has been applied and effectively squeegeed on the selected application areas, proceed to the finishing step by trimming the excess film off the edges.

To facilitate cutting, make sure to use new and very sharp knives for cutting: dull knives will result in rough cut edges.

1. Use firm pressure with a squeegee to ensure all edges are firmly adhered.
2. Using a squeegee or glove finish tucking the edge making sure the film is fully applied.

3. As the final application step, re-squeegee and post heat the most critical areas (e.g. deep corrugation and edges) ensure secure adhesion to the substrate.

NOTE: If using a partial roll of film, make sure to tape down the leftover roll tail with sufficient tension to avoid tunneling. It is recommended to use 3 tabs of removable tape on top, bottom, and middle of the roll and wind tightly prior to applying the tape. Alternatively, the cap sheet can be removed from the remainder of the roll and stored without the cap sheet. If this is done take care not to wind the roll too tightly as this could cause mottle on the face of the film.

6.4 Videos demonstration installation of Avery Dennison Paint Protection Films

coming soon

7.0 Post Heating

- *Once application has been completed, all areas where the film has been stretched 10% or more require post heating.*
- *Post heating should be done no sooner than 30-45 minutes after application.*
- *With the use of a heat gun on a high setting and a digital IR thermometer apply heat until the conformed area of film reaches a measured 180°-190°F (80°-90°C)*
- *Post heating must be done the same day as the application.*

8.0 After Install Cleaning & Maintenance

Avery Dennison Paint Protection Films features a long-term protection of the car body during the lifetime of the product. In order to maintain and clean the film, commercially available cleaning products may be suitable but need to be tested prior to use on an inconspicuous area of the film.

8.1 Cleaning

- Wait 72 hours after installation to wash your car.
- Remove insects or other stains as soon as possible with soap and water.
- Difficult to remove stains can be removed with isopropyl alcohol > 90%. After using these cleaners, be sure to follow up washing with soap and water after using isopropyl.

- Spray waxes that are free of petroleum distillates can also be used to seal the film and may be used to clean and protect the surface of the film.
- Light scratches in the film will self-heal in 20-30 minutes at room temperature. In colder conditions, or to accelerate the process, pour warm water (120°F) over the affected area.
- Avoid using a pressure washer or high-pressure water source near the edges of the film, it can cause the film to lift and/or become damaged.
- Surface contaminants may also be removed using a detailing clay bar or towel.

9.0 Removal

Within the limit of its expected lifetime and if applied on properly cured car paint, Avery Dennison Paint Protection Film can be removed with nominal adhesive residue. Clean removability is not warranted and removability performance will be compromised when film is applied on existing graphics, non OEM paint or other type of surface rather than car paint.

- When removing the film, start by picking up a corner and stretching the film somewhere between a 0°and 45°angle.
- As the film is being stretched it will start to pop off of the surface and should be removed cleanly. As the angle of removal is increased beyond 45° the occurrence of leaving adhesive residue will also tend to increase. It may be difficult to remove film that has been applied for a long time, or if the film and vehicle are cold.
- For the best results, try removing when the temperature of the film and surface are above 55°F. If removed in colder temperatures, a heat gun or hair dryer can be used to aid removal.

10.0 Warranty

Register the PPF installation online at THIS LINK or use this QR code to access the warranty page

11.0 Disclaimer

This technical bulletin describes a technique. The information contained herein is believed to be reliable, but Avery Dennison makes no warranties, express or implied, including but not limited to any implied warranty of merchantability or fitness for a particular purpose. To the extent allowed by law, Avery Dennison shall not be liable for any loss or damages, whether direct, indirect, special, incidental or consequential, in any way related to the technique of making a graphic regardless of the legal theory asserted.

Revisions have been italicized.

Working With: PrismaPro™ Color Paint Protection Film

Key Differences Compared to Avery Dennison® Supreme Wrapping Film™ (SW900)

DOs – What Works Well	DON'Ts – What to Avoid
• Use a Tack Reducer – Reduces initial grip, increases repositionability. • Wet Buffer Recommended – Avoid scratching and dragging by misting the surface. • Wear an Ultra Slick Glove (WrapGlove® GHOST® or similar)- Reduces friction and improves application flow. • Wrap Around Edges - Don't Flush Cut - wrap fully for long-term hold. • Heat Sealing All Edges & Post Heating Recesses – Locks the film into contours and recesses. • Work in Sections - Avoid full-panel tacking by anchoring in manageable areas.	• Don't Glass the Whole Panel Like SWF - Work the material in sections between body lines. • Don't Apply Excessive Pressure in Isolated Spots - Can cause adhesive distortion or show-through. • Don't Tuck Under Tight Gaskets - Avoid puckering by trimming flush. • Don't Use Magnets After Removing Cap Sheet - May leave pressure marks.