

# Application Instructions for Avery Dennison™ SPF-XI Paint Protection Film

Technical Bulletin #6.0 (Revision EU1)

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## 1.0 Consult Product Data Sheet

- 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 decide to apply the Avery Dennison SPF-XI Paint Protection Film.

## 2.0 Application Tools

- Tool belt – to hold all application tools (Avery Dennison product code CB0650001)
- Microfiber Felt Edge Squeegee, like the following:
  - Squeegee Pro (Avery Dennison product code CA3480002)
  - Squeegee Pro Flexible (Avery Dennison product code CA9080002)
  - Squeegee Pro Rigid (Avery Dennison product code AP8270002)
- Cutter with break off blades (Avery Dennison product code CA8140001)
- Stainless steel blades (Avery Dennison product code BM3290001)
- Lint-free cleaning cloth
- Professional Heat Gun
- Spray Bottle (Avery Dennison product code CA8140001)
- Avery Dennison Surface Cleaner (Avery Dennison product code CA3750001)
- Baby Shampoo and Water

## 3.0 Storage conditions

AD SPF-XI Paint Protection Film should be stored at a Temperature of 20 °C ( $\pm 2$  °C) with 50 %RH ( $\pm 5$ %), in original package and in a vertical positions. Proper storage allows the film to keep its maximum performance and also enables a hassle-free application. User assumes all risk and liability for the loss of performance, when the film is stored improperly by user. Improper shall mean that the user did not store the Avery Dennison SPF-XI Paint Protection Film in accordance with the aforementioned instructions.

## 4.0 Preparation and cleaning of the surface

To prepare the application surface, wash it with a mild detergent solution, after which the surface should be rinsed and dried with a lint free cloth.



Graphics  
Solutions

After the surface has completely dried, the surface should be further cleaned and degreased using Avery Dennison Surface Cleaner and a lint free cloth. Depending upon the level of contamination, this process may need to be repeated to ensure that the surface is fully prepared for application.

It is recommended to clean the application surface with Avery Dennison Surface Cleaner. Many other commercially available cleaning/degreasing products may be suitable for cleaning and degreasing but need to be tested prior to use. In addition, the following factors should be included in the preparation before application:

- Car wax and polish residues must be completely removed.
- Paint surfaces must be completely dry, hardened and free of scratches. On most baked paints films can be applied immediately after cooling down. Air dried and car repair paints require at least one week to dry before films should be applied. Solvent residues in painted substrates may adversely affect film adhesion and might cause excessive shrinkage or blistering.
- Painted substrates for self-adhesive films should be dried according to the paint manufacturer's instruction 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.
- Special attention should be given to critical areas as edges, corners, welding seams, rivets and the like. These should be thoroughly cleaned and dried before application.

For extra information on preparation and cleaning of application surface, additional instructions are provided in technical bulletin 1.1.

## 5.0 Installation of the film

Avery Dennison SPF-XI Paint Protection Film has been designed to protect the car's body surface and can be applied to car fronts, wheel arches, rocker panels, door edges, pillars etc. Before starting the application, wash your hands, to avoid fingerprints on the adhesive and ensure that the Avery Dennison SPF-XI Paint Protection Film is applied in a clean, dust-free and well lit environment.

SPF-XI film needs to be applied using the wet application method, being a water and soap solution.

For optimal application performance, the recommended soap solution for application is 1 Liter of water mixed with 2 mL of baby soap. Prepare and mix this solution into the Avery Dennison spray bottle. Do **not** add any alcohol component (e.g. Isopropyl Alcohol) to the application solution.

As a first step in application, cut the material from the roll to approximate needed size and make sure to remove the transparent protection sheet applied on the face of the film.

Spray the soap solution on the painted surface before applying the film. The surface of the film should also be sprayed wet with the soap solution throughout the application to allow the squeegee to slide across the film.

Remove the PET liner and spray the exposed adhesive side with the soap solution. Then position the material on the selected application area. If necessary, slide the film until you have reached the correct positioning.



Once the material has been positioned, gently start to squeegee the film. Use an Avery Dennison Squeegee Pro with felt cover and gradually increase the pressure in order to remove all the air and water from under the film. Overlap the squeegee strokes by about 50% to avoid remaining air/water entrapments. During this phase, make sure to keep the felt cover of the squeegee and the face of the film wet with the soap solution to facilitate sliding of the squeegee on the film surface. For applying extra pressure in removing water, it is also possible to use the hard/back part of the squeegee, paying attention not to damage the film. User assumes all risk and liability for any damage to the film that may be caused by the use of the hard/back part of the squeegee.

Please note that 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 images might remain visible in the film surfaces.



For curved areas, it is necessary to firmly pull and stretch the film in order to conform the film around the surfaces. In order to further facilitate film stretching during application heat can be applied to the film. Avery Dennison SPF-XI Paint Protection Films will need to be heated between 50° to 60°C for full application in convex, concave and compound shaped surfaces to reach its optimal conformability level.



Conventional convex and compound shapes on car fronts are mostly suitable to be covered with Avery Dennison SPF-XI Paint Protection Films, but in some deeper corrugated shapes it may be necessary to make an incision in order to avoid any form of air/water entrapment in the deep recesses. This incision does not jeopardize the functionality or durability of the product.

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 a new and very sharp knives for cutting: dull knives will result in blurred cutting edges.

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

## 6.0 Cleaning, Maintenance and Removal

Avery Dennison SPF-XI 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, it is recommended to use Avery Dennison Supreme Wrap Care products. Other commercially available cleaning products may be suitable but need to be tested prior to use on an inconspicuous area of the film.

Within the limit of its expected lifetime and if applied on properly cured car paint, Avery Dennison SPF-XI Paint Protection Film can be removed with a clean removability feature. Clean removability is not warranted if SPF-XI film is applied on an existing graphics, not properly cured car paint or other type of surface. The general instructions for removal of self-adhesive films are described in Technical Bulletin 1.2.

## **7.0 Disclaimer**

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