

 SOLAR SCREEN  
AUTOMOTIVE  
SMART TINTING SOLUTIONS

# »» PROTECTOR ULTRA MAT



# » *General information*

The vehicle must be washed thoroughly before applying the Protector Ultra Mat

This step is not mandatory but on used cars it is recommended to pass the surface with a Clay Bar to remove any contamination that may be present but not visible to the naked eye

The vehicle has to be placed in a suitable environment: clean and free from wind and dust. The use of professional overalls is recommended to avoid contamination from the applicators' clothes. Eventually, brightness is essential to perform a great job

The necessary equipment we recommend includes some accessories that are different from the classic applications for car wrapping films: dedicated squeegees (REF. 0594 AC-5; REF.0593 AC-5), liquids for laying the vinyl and a knife with 30° angle. Additionally a steamer should be used instead of a heat gun

## **Possible liquid solutions for installation**

Soapy water: we recommend using Film-on as soap. 3Ml in 1 liter of water (filtered or distilled water)

Alcolic solution: 20/25% ISO (99,9%) - 75/80% water (filtered or distilled water)

Gel: commercially available solution

For large and flat surfaces, such as a hood or fender, we recommend using soapy water or Film On solution for main parts and an alcoholic solution for the edges (right after the cuts) to increase adhesion of the film.

On more complex surfaces, such as bumpers or concave areas, we recommend using a gel, which will allow an immediate tack.

Please anticipate a required drying time of at least 24 hours, during which the vehicle cannot move. During this time, as the vinyl is drying, edges may be still damp. After the 24 hours delay, you can check the edges and corners to ensure the adherence.

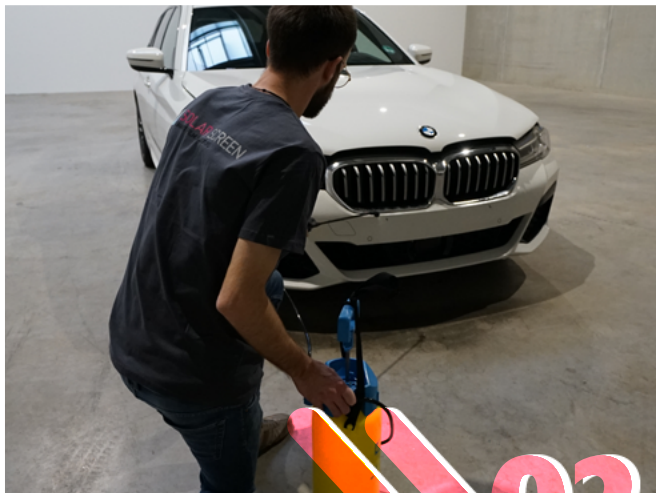


# » Installation Guide

Measure the parts to be covered. Cut the Protector Ultra Top leaving at least 10 cm of extra margin around the surface, in order to be able to stretch it during the installation and avoid any finger print traces on the part to be applied



01



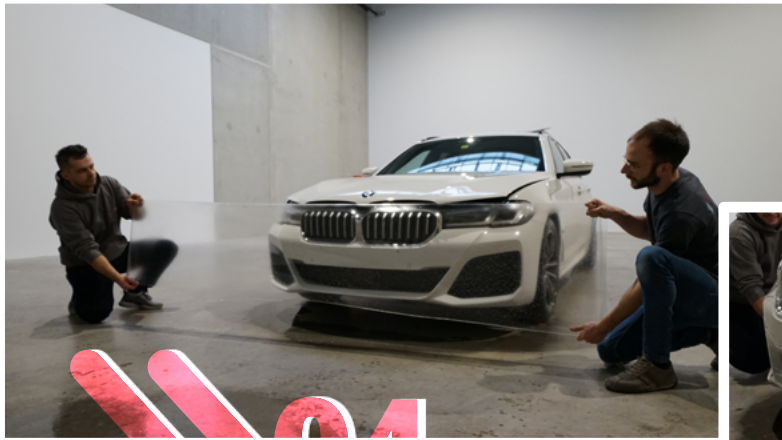
02

Spray soapy water / gel on the part of the body to be protected. This operation makes it easier to place the vinyl on the vehicle. Check that there are no dust remaining before wetting the bodywork, otherwise clean the surface again before starting the installation

Slowly separate the liner from the Protector Ultra Mat, taking care to immediately and constantly spraying the soapy water or gel to prevent the adhesive part of the film to attract any dust or dirt from the environment. This phase is the most important to obtain a perfect coating result



03



Place the Protector Ultra Mat on the bodywork and stretch it to ensure it perfectly takes the surface's shape that needs to be covered



04

For application on a curved surface or with recesses, it is recommended to warm the Protector Ultra Mat steamer to soften it, otherwise use lukewarm water

Apply the film with one of the squeegees REF. 0594 AC-5, REF. 0593 AC-5 or REF. 0591-7, depending on the size and shape of the surface to be coated. Squeegees references are arranged from the hardest to the softest

Please keep in mind that the pressure you put on the squeegee to install the film is very important to remove all the liquid underneath. The pressure with which it is applied is very important to remove all the liquid underneath



05



06

If the vinyl moves during application, it means the soapy solution is not adapted. When the solution has the right balance the film should have the right adhesion from the beginning

To have adherence in concave and recessed areas or on the edges before cutting, we recommend the use of lukewarm water, a steamer or a tack solution, in order to increase the adhesion during the application on these specific areas



## **Tips for cutting the material**

*Cut with margin*

Use a cutter equipped with a new 30 degrees blades

Keep the blade parallel to the surface in order not to damage the paint during the cutting phase

To make an edge cut, cut close to the adjacent surface (for example, if you are doing the hood, cut along the fender slot, placing the blade at an angle on the end of the fender and not the hood)

If there are no adjacent parts, proceed to cut the excess leaving a margin of 2 - 3 mm of film. Always cut by rounding the corners of the vinyl

After cutting, 2-3 mm of the film protrudes from the coated part of the bodywork, allowing edges to dry. At this stage, use a spatula to fold back the 2-3 mm and make sure the entire vinyl adheres to the surface



07



## **Straight cut (without edge margin)**

*This method is used to make a cut along a gasket or parts that cannot be removed.*

Use a cutter with a new blade

Mark the edges of the part to be coated with your finger: remove the vinyl from the adjacent part and stretch it with the squeegee in the concave part to mark the edge of the seal well

To make the cut, the cutter blade must be positioned flat on the squeegee, meanwhile the squeegee must be oriented the concave part to clearly mark the edge of the seal

Slide the spatula with the cutter blade to make the cut. Always keep the blade in this position

Remove the excess vinyl

To obtain optimal edge adhesion, cut by rounding the corners of the vinyl

## **Straight cut without margin on paint**

Direct cuts on the bodywork should only be made by experts applicators who have the experience with these types of cuts



## **Finishing**

Let the edges dry and then press on them with a finger or a squeegee, in order to eliminate any remaining drop of water

In case of wrinkles close to the cut, press with your finger for 30 seconds, then check again and remove any remaining soapy water / gel. Repeat the previous point if necessary

Keep the vehicle indoors for 24 hours. At the end of drying, check that all edges are well bonded

The vehicle must not be washed within 48 hours after applying the **Protector Ultra Mat**



## **Cleaning and maintenance**

Conventional cleaning methods can be used but also detergents used in professional vehicle care. A preliminary test is always recommended.

In case of washing with high-pressure washers, the following precautions must be observed: use medium pressure, keep a minimum distance of 50cm and do not use water hotter than 35 °

## **Removing the ultra top protector from the vehicle**

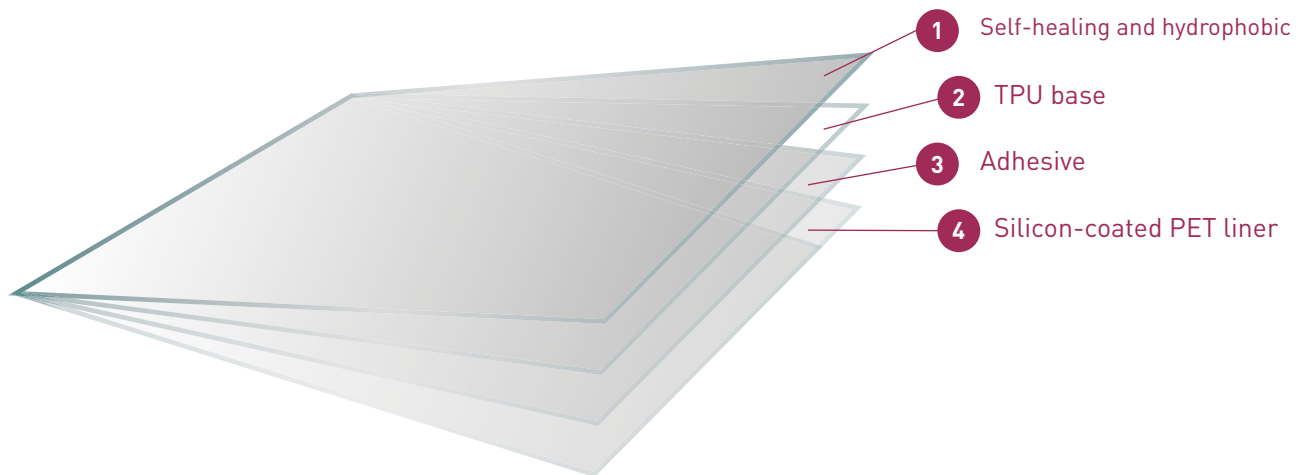
Thanks to the technology of our product, the removal is quite simple and fast. Use a steamer or a heatgun, heat the product while removing it at an angle of about 70 ° to avoid leaving traces of glue on the bodywork.

The vinyl can only be applied to undamaged and original paintwork. If the paintwork is not original and / or damaged, the application and the removal are at the judgment and risk of the installer.

# PROTECTOR ULTRA MAT

High performance transparent film for partial/full covering of motor vehicles. It protects the paint from small impacts, gravel, scratches, insects or winter salt. With its top coating surface it is able to repair itself thanks to the sun or hot water from minor scratching. Available in 1520 mm

## **Composition:**



## **Top Coating Surface Properties:**

- Extreme water repellent performance
- Non-yellowing
- Self-healing from minor scratching
- High-optical clarity

## **Film Features:**

- Thickness Film (µm) **180**
- Thickness Liner (µm) **80**
- Tensile strength (n/25 mm) : **>100**
- Elongation at break (%): **>350**



## **Adhesive Properties:**

Solvent-based, acrylic adhesive.

Immediate and permanent adhesion, optimal after 24/48 hours

Peel strength test 180° (N/25 MM):

- After 20 minutes of application: **19**
- After 24 hours of application: **20**
- Initial tack (N/25 mm): **11**
- Release (N/25 mm): **0.3**

## **Liner:**

- Silicon- Coated PET Liner

## **Storage**

- The shelf life of the film (before the application) is 1 year when is stored in its original packaging between a temperature ranging of +15 °C and +25 °C (59 °F to 77 °F)

## **Application Advice:**

- Application only wet (gel/ water and soap)
- Temperature operating range: +15 °C and +35 °C (59 °F to 95 °F).
- Cut the film to size including an extra 10 cm for extra margin
- In case of stretching using a steamer to warm the material  
The vinyl must be applied to undamaged original paintwork.  
If the paintwork is not original and/or damaged, the application and the removal are at the judgement and risk of the installer.

## **Warranty:**

- Lifetime depends on the exposure condition and the frequency of the cleaning process.
- Vertical Exposure (north and central Europe)
- Horizontal exposure (north and central Europe)





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