

immortal™ Instant Self-Healing PPF

Handling & Installation Guide

Immortal™ Instant Self-Healing PPF is our newest development in the pursuit of the ultimate automotive paint protection.

CARPRO Immortal™ is the first ever paint protection film which instantly self-heals in temperatures as low as -20°C! This means you won't have to use heat guns or hot water to fix any scratches – you'll simply never notice them! As groundbreaking as it is, pushing the limits of self-healing properties is only one of many R&D considerations that went into the creation of CARPRO Immortal™ PPF. We've extensively tested and developed every area of performance to make sure Immortal PPF offers (and maintains over time) the highest level of transparency, clarity, and a high-gloss finish with a strong self-cleaning hydrophobic effect.

CARPRO Immortal™ PPF has been designed to protect the surface of the car's body and can be applied to bonnets, bumpers, guards, rocker panels, door edges, pillars and most OEM painted surfaces, as well as interior elements.



BASIC GUIDELINES

There are a few things to keep in mind when working with Immortal™ PPF. First and foremost, please remember these basic guidelines and share them with your customers.

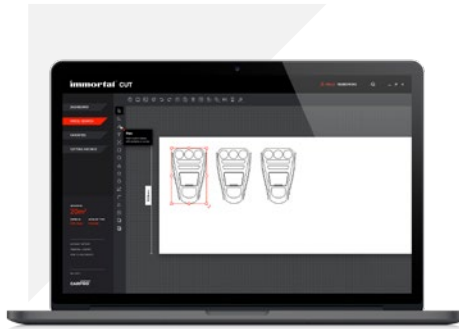
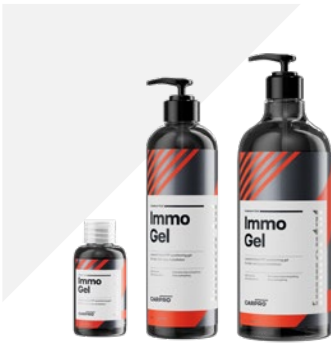
- Do not wash the car within a week from installation, as the adhesive needs time to perfectly set
- Do not wash with high-pressure washers directly on the edge of the film
- Wash only by hand
- Do not polish the PPF surface
- Do not use strong solvents or strong acid-base cleaners on the PPF. (CARPRO Descale can be used)
- Always use fresh soft microfibre towels and avoid hard friction on the PPF surface
- Do not attach any suction cups or any items that may cause delamination to the surface of the PPF
- Avoid parking under trees, as bird droppings or tree sap can permanently damage the PPF surface
- Wash the car after rain to avoid any acid rain damage to the surface of the PPF
- Use only CARPRO maintenance products for the best performance!

HANDLING AND STORAGE

- 1 Open the box in a clean environment making sure to avoid dust or contamination.
- 2 Always keep the film tightly wound and fasten with tape in the middle and the ends to prevent it from unwinding and causing damage to the adhesive or surface finish of the film.
- 3 Store vertically in original packaging.
- 4 Optimal storage conditions are 4-32°C (40-90°F) and 40-60% relative humidity.
- 5 We recommend that every roll of Immortal™ PPF is used in full within one year from purchase.

INSTALLATION TOOLS

Developing Immortal™ PPF we took it as our goal to release it with all the essential tools and accessories to make the installation process as smooth as possible.

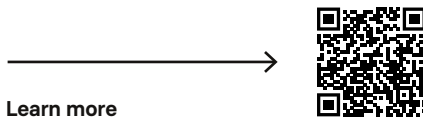


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ImmoGel

We already made sure CARPRO Immortal Instant Self-Healing PPF is easy to work with, but we want your experience to be as smooth as possible.

CARPRO IMMORTAL ImmoGel is our new Immortal-dedicated concentrated PPF positioning lubricant. When diluted and sprayed over the PPF adhesive, its high viscosity improves moisture distribution and therefore allows easy positioning and squeegeeing with minimised risk of haze or spots after application.

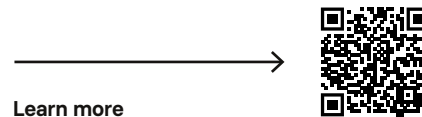


immortal™ CUT

PPF PATTERN SOFTWARE

Immortal CUT is an essential tool for PPF installation efficiency. Its main feature is a complete database of templates for automotive exteriors AND INTERIORS for all those pesky interior piano blacks!

Simply select which car make, model, and version you wish to cut for, and Immortal CUT will automatically select and efficiently arrange all the required templates. If any adjustments are still needed, it is packed with custom editing functionalities, tailored to the needs of PPF installers.



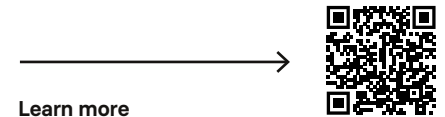
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Squeegee KIT

A set of 5 PPF-dedicated soft squeegees in various shapes and sizes allowing easy access to all curves, corners, and gaps.

Each squeegee has a built-in magnet, which allows it to be quickly stowed away directly on the car body as you work.

The soft and flexible rubber, combined with a smooth edge design, prevent any scratches or marring.



OTHER ESSENTIAL & USEFUL TOOLS:

- Cutter/knife with break off blades
- Hot water, Heat Gun or Steam Cleaner with on demand steam
- Lint-free microfiber cleaning cloths (like **CARPRO 2Face MF Towels**)
- cold water or a 80/20% water/ethanol tack solution (you can use **CARPRO Clarify**)
- Clay bar and lubricant
- Solvent-free surface cleaner (like **CARPRO Eraser**)

NOTE

To avoid damaging the film, always ensure the application tools are in good condition and test them prior to commencing the application.

NOTE

The use of any chemicals recommended in this guide should be done with caution, and safety precautions and warnings should be followed, including use of the appropriate personal protection equipment. Always read the instructions on labels, MSDS, or contact CARPRO for usage guidelines.

SURFACE CLEANING & PREPARATION

The surface must be completely clean, smooth, and dry before final preparation.

- 1 Remove all dirt and grime with **CARPRO Reset** or **Descale**
- 2 (ON NEW CARS) Remove any co-polymer paint protection coatings
(ON USED CARS) Make sure the surface is perfectly smooth. If polishing is needed, you will need to perform an extra wash to make sure any residue is removed
- 3 Do not use any waxes, sealants, etc. after wash
- 4 Allow the vehicle to dry ensuring no water remains in areas such as seals and behind door handles.
A compressed air gun can be used to aid in drying hard to get to areas
- 5 After following the pre cleaning instructions above, the surface should be thoroughly cleaned with **CARPRO Eraser**
- 6 Take special care with recesses, corners, returns of panels, behind rubbers (e.g. inside edge of doors) and any hard to reach areas

Check all critical areas using the 'nail test'. Feel the surface with the back of your fingernail. If it is difficult to slide your nail across the surface and it grips heavily, then the surface is clean. If the surface feels slippery and your nail slides easily, then it should be cleaned again.

NOTE

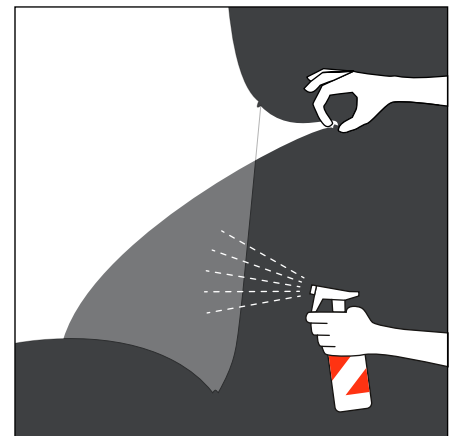
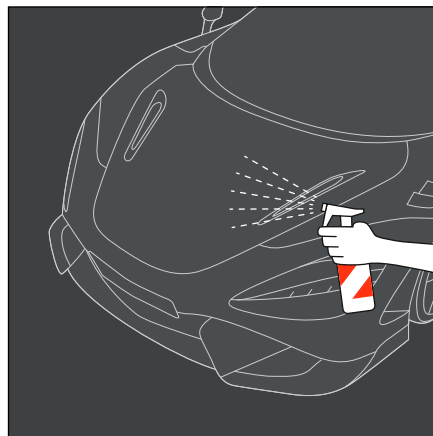
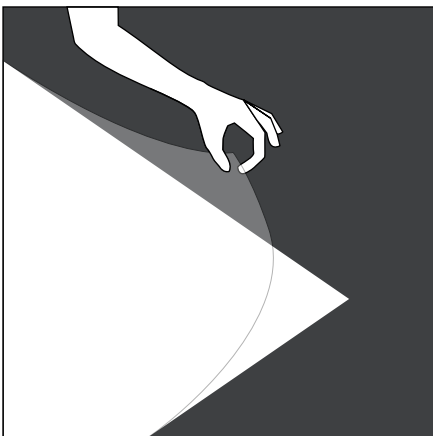
There must be no dirt, grime, grease, oil, wax, polish, co-polymer or ceramic coatings or solvent residue remaining on the substrate prior to application.

INSTALLATION REQUIREMENTS AND PREPARATION

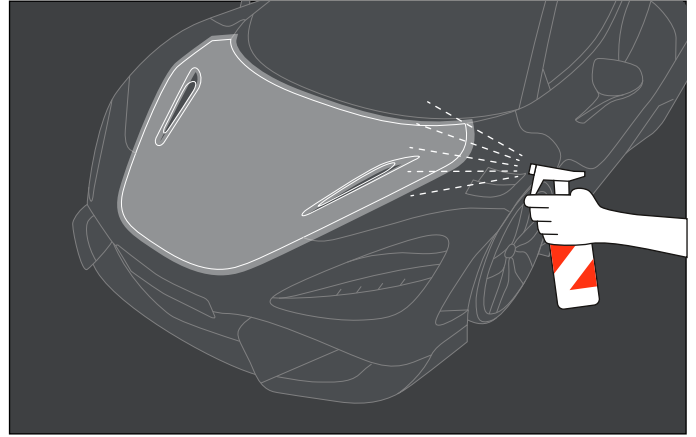
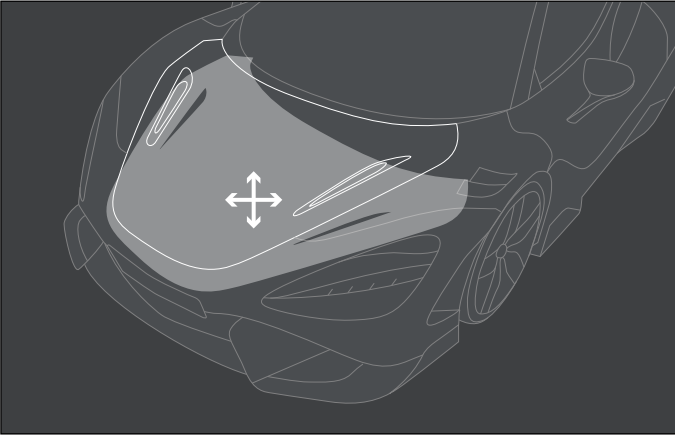
- 1 CARPRO Immortal™ PPF can be hand cut by hand or plotter using our **Immortal CUT software**.
- 2 Before starting the application, wash your hands, to avoid fingerprints on the adhesive and ensure CARPRO Immortal™ PPF is applied in a clean, dust-free, and well lit environment.
- 3 For optimal application performance, the recommended slip solution is a **1:100 solution of CARPRO ImmoGel and water**. We recommend our handy **CARPRO Dilute** bottles. The tack solution should be a 20% ethanol with water solution, but **CARPRO Clarify** may also be used.

STARTING THE INSTALLATION

- 1 (MANUAL CUTTING) Measure and cut the material from the roll ensuring it is at least 100mm larger than the panel it is being applied to. **Make sure to remove the protective top liner from the face of the film before beginning the installation.**
- 2 (PLOTTER CUTTING) **Ensure the top liner is removed prior to cutting.**
- 3 Spray the ImmoGel solution liberally onto the surface before applying the film, ensuring the surface has an even and generous covering.
- 4 Spray your fingers with the slip solution to avoid any fingerprints in the adhesive.
- 5 Remove the PET bottom liner and spray the exposed adhesive side with a generous covering of the ImmoGel solution.



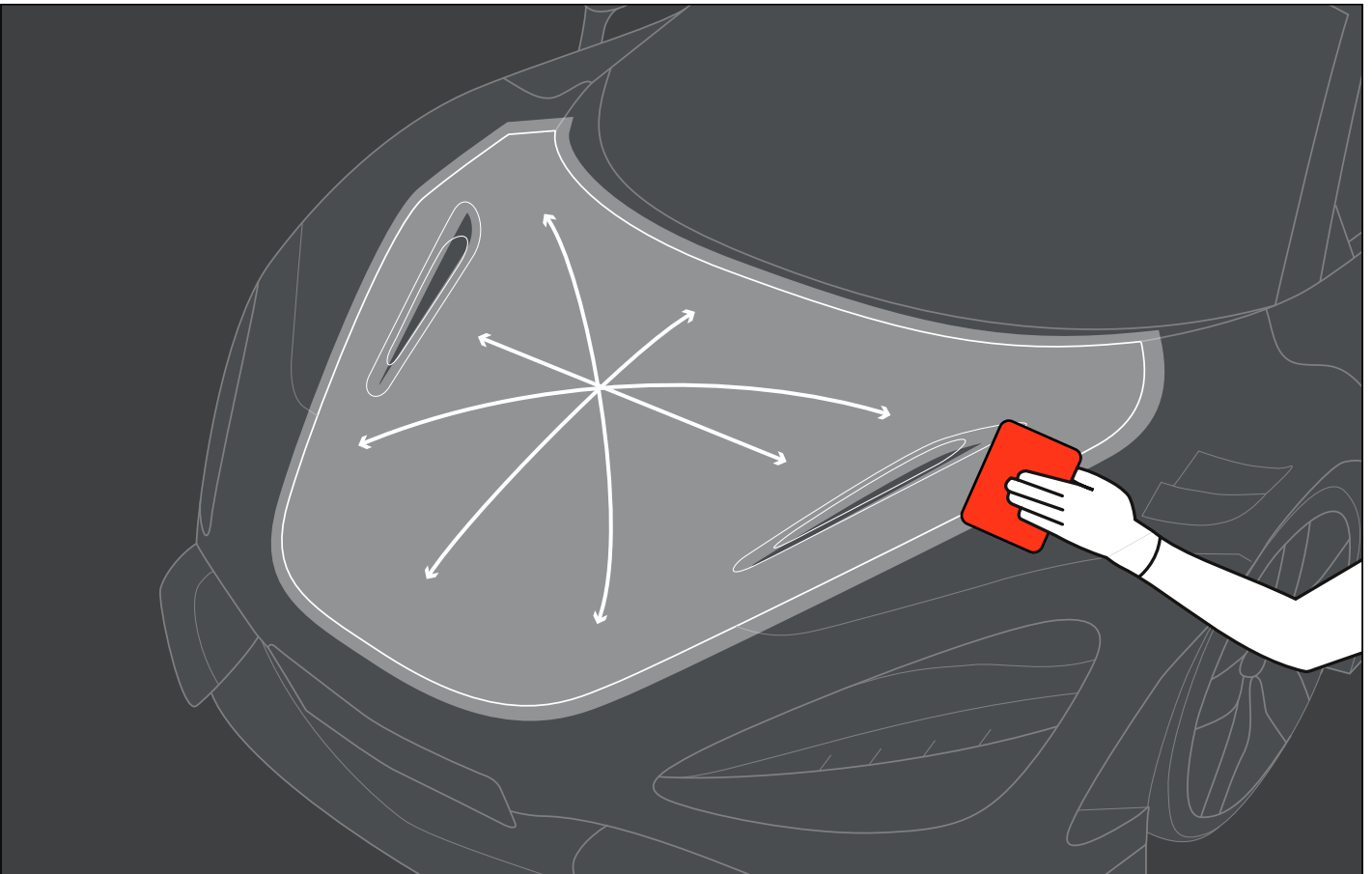
- 6 Position the material on the surface. If necessary, slide the film until you have reached the correct positioning.
- 7 The surface of the film should also be sprayed with the ImmoGel solution throughout application to allow the squeegee to slide easily across the film and to avoid scratching or damaging the surface.



IMPORTANT NOTE

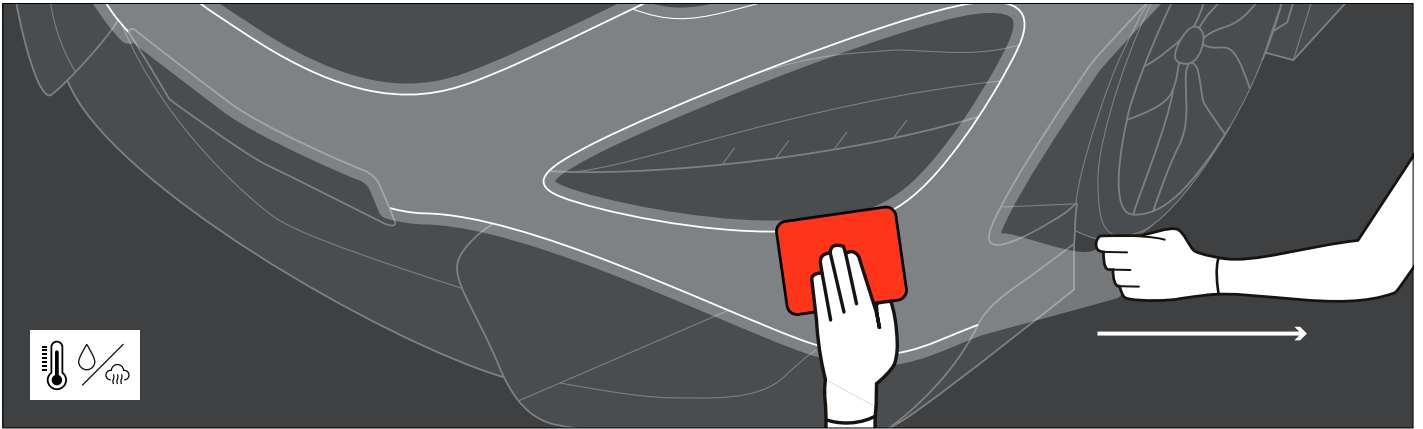
Re-positioning of the film is only possible during the initial positioning and after low squeegee pressure has been applied to the film. If done at a later stage small marks or lines might remain visible in the film surface.

- 8 Once the material has been positioned, gently start to squeegee the film.
- 9 Start in the middle of the panel and gradually increase the pressure in order to remove all the air and slip solution from under the film. Overlap the squeegee strokes by about 50% to avoid remaining air/water entrapment.



CONFORMING

- 1 For curved areas, it is necessary to apply tension and firmly pull the film in order to conform the film around the surface.
- 2 Whilst the film is under firm tension, squeegee the area, gradually increasing the pressure.
- 3 The use of a small amount of hot water, heat from a steamer (30-50°C), or alternatively a heat gun can aid in conformability. A steamer is the preferred option as the steam provides uniform heat that dissipates a lot slower when compared to a heat gun.



NOTE

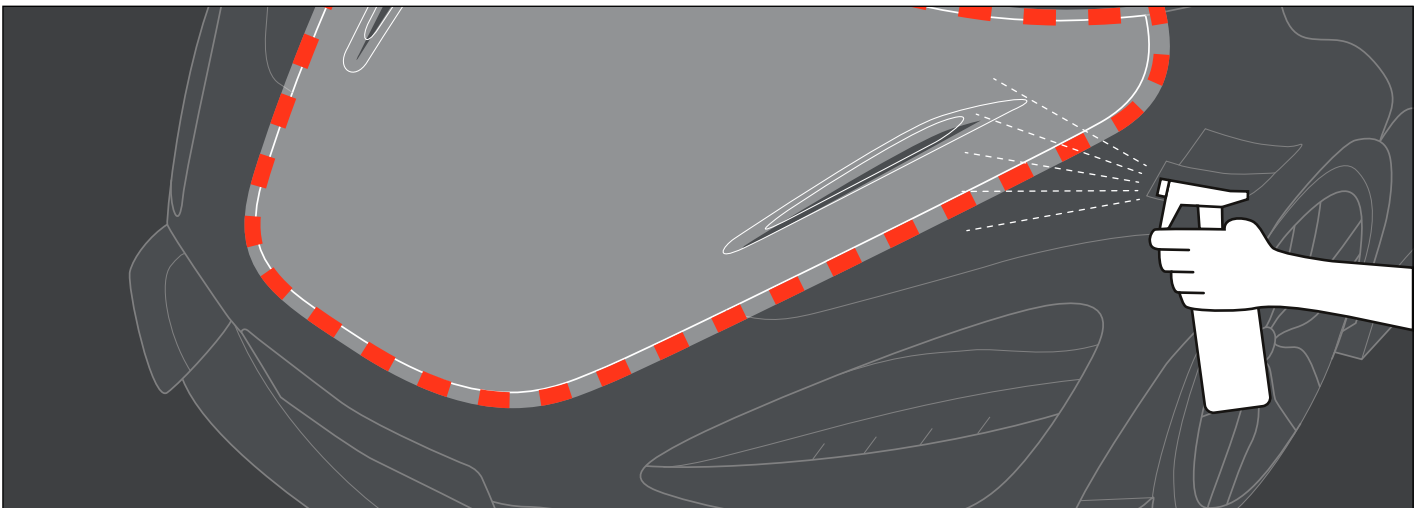
Although Immortal PPF is highly elastic and resistant to cracking, care should be taken to avoid overstretching or applying too much tension, fine cracks in the top coat can result from incorrect stretching or over tensioning the film. It is recommended to experiment with the film prior to installation to find the elongation limit of the film compared to your installation technique.

NOTE

Conventional convex, concave and compound curves are mostly suitable to be covered with Immortal PPF, but in some deeper corrugated shapes and recesses it may be necessary to make an incision or relief cut in order to avoid overstretching the film. Ensure any incisions or relief cuts are made with a rounded cut, not straight, this will avoid any unintentional tearing of the film. Incisions or relief cuts do not jeopardize the functionality or durability of the product.

FINISHING EDGES

- 1 Where the film meets an edge of a panel such as a bonnet or door, cold water or tack solution should be sprayed underneath the edges of the film to remove any residual soap solution, in order to achieve good adhesion.
- 2 Once the edges have been washed, use firm squeegee pressure to ensure the edges adhere. It may be necessary to repeat the edge wash a second time due to residual soap solution re-entering underneath the edges of the film.
- 3 Once the film has been applied, and all edges are firmly adhered, proceed to the finishing step by trimming any excess film.



TRIMMING

- 1 In cooler climates (below 16°C) some additional drying time may be required before commencing trimming of the film. If you start trimming the film without sufficient drying, it may not have achieved suitable levels of adhesion, and it may move, therefore longer drying time is required.
- 2 For optimal cutting, make sure to use a new and very sharp blade: dull blades will result in rough cuts or insufficient cutting depth.
- 3 Use light blade pressure and only score the top half of the film, an audible squeak can be heard when the correct trimming pressure is used.
- 4 Do not apply too much pressure as you may cut through the entire film and damage the substrate.
- 5 Once scored, break the film on an edge where cut and the excess material will easily come away from the applied material. If the film does not break away easily check your blade is new and sharp then re-trim with slightly more pressure.

IMPORTANT NOTE

As a final application step, re-squeegee the most critical areas (e.g. corrugations and edges) to ensure optimal adhesion to the substrate.

COATING

Immortal™ PPF's mechanical resistance and immediate self-healing are perfectly complemented with the chemical resistances and unparalleled surface finish of our CQUARTZ ceramic coatings.



C.QUARTZ
Finest RESERVE



C.QUARTZ
Professional



C.QUARTZ
SIC