

PRODUCT BULLETIN

APPLICATION GUIDE

Protection film

CARPROTECT

(CARPRO150B - CARPRO150M - CARPRO300)

REQUIRED ACCESSORIES

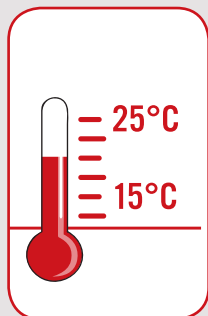
- › One PULVITRE vaporiser (11 litres)
- › One PULVERISAT 1 litre vaporiser
- › MARBLEU squeegee
- › One CUTVITRE small blade cutter
- › One CUTLAME refill
- › One HEXIS'O cleaning agent
- › One ND45 powerful agent
- › One CLEAN HEXIS degreaser
- › One set of cleaning solution 1, 2, 3
- › One CARSHAMPOO vehicle shampoo
- › One soft cloth

STORE YOUR FILM UNDER OPTIMAL CONDITIONS

Keep the film away from any strong source of heat (radiators, direct exposure to sunlight...): the ideal temperature is between 15°C and 25°C (59°F to 77°F) with 50% relative humidity.

Keep your film in the original packing. The rolls are wrapped in sealed polyethylene bags and are maintained in the carton by square end pieces to prevent the turns from being crushed by the weight – and keep in a dry place .

Always store the rolls in a horizontal position.



CHARACTERISTICS

CARPROTECT is a clear self-adhesive film, developed especially to protect vehicle bodies. By virtue of its outstanding shock-proofing properties, it protects your vehicle against chipping caused by gravel, insects, car doors, car wash rollers etc. It also provides excellent vandal-proofing protection.

PREPARE YOUR APPLICATION SUBSTRATE

CARPROTECT film can be applied to any vehicle body as long as the surface is clean, smooth, non-porous and clear of any traces of oil, grease, wax, silicone or other polluting agents. To avoid unpleasant surprises, it is always better to consider that every substrate is polluted and needs to be cleaned.

Remember to carry out a preliminary test on a small surface area to ensure that the substrate remains undamaged.

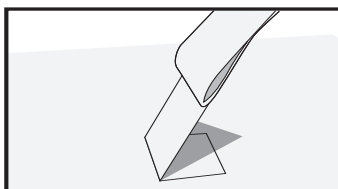
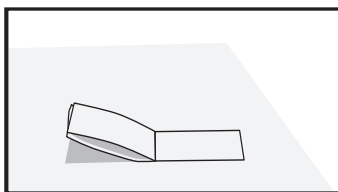
Do not hesitate to see the technical data sheets of films used on our Internet site at www.hexis-graphics.com

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1. RECOMMENDATIONS

- > Optimum adherence CARPROTECT is obtained after 24 hours of contact.
- > CARPROTECT is used on the areas of the vehicle body most exposed to aggression (bumper, bonnet, doors etc.) but there is nothing to prevent from applying it onto the entire car!



2. PRELIMINARY TEST OF THE SUBSTRATE

- > All new paint must be allowed to dry for at least 7 days at 25°C (59°F) to ensure complete degassing. A degassing test must be performed after the application of the film.
- > On old, powdery or chipped paints, sand and renovate the surface before application, and run an attachment test.

2.1 Tear-off test

Using Tesa® 7476 or similar adhesive tape, on a deposit surface measuring 2.5cm x 5cm (1in x 2in) plus an unattached edge to provide a grip. Bent and pull sharply, perpendicular to the surface of the substrate. There should be no traces left on the removed adhesive tape. Repeat the operation in several places.

> HEXIS can supply you on request with Tesa® adhesive tape measuring 2.5cm x 5cm.

2.2 Degassing test

(for checking) Square measuring approximately 15cm x 15cm (6in x 6in) of adhesive polyester or a film for application. Wait 24 hours or 2 hours at 65°C (149°F). The appearance of bubbles indicates that the substrate has not been sufficiently degassed. After a few days, repeat the same operation, or perform the operation described below

2.3 Flame degassing method

(Polycarbonate, translucent or diffusing methacrylate, expanded PVC...); the method consists in modifying the surface tension of a substrate by running a hot flame over it using a gas torch.

Pass the flame quickly, sweeping horizontally and vertically over the entire surface of the substrate (use the blue tip of the flame).

⚠ Never leave the flame standing at same point for more than one second (it could destroy the substrate). The film must be applied immediately because this light surface treatment disappears after a few minutes.

⚠ HEXIS declines any responsibility for bubbles due to degassing

HEXIS'O
medium cleaning
and degreasing
agent



3. CLEANING:

General case:

Before applying film to the surface to be covered, we recommend you clean it with a mild solution of HEXIS'O. Dry with a clean lintless cloth.



For a vehicle full wrap:

In the case of a full wrap it is recommended to wash the vehicle with the help of our vehicle shampoo CARSHAMPOO and then to use the PRE CLEANER liquid (liquid 2). Vaporise unto the surface. Leave for a few moments and then wipe with a clean cloth. Proceed with a final clean with the help of the FINAL CLEANER (liquid 3).

CLEAN HEXIS
cleaning and
degreasing agent



3.1 Dirty looking substrate

General case:

Use a cloth soaked in CLEAN HEXIS degreaser to clean the substrate and dry it with another cloth before it evaporates.

For a vehicle full wrap:

In the case of a full wrap it is recommended to wash the vehicle with the help of our vehicle shampoo CARSHAMPOO and then to use the HEXIS PRE CLEANER liquid (liquid 2).

Vaporise unto the dirty surface. Leave for a few moments and then wipe with a clean cloth. Proceed with a final clean with the help of the HEXIS FINAL CLEANER (liquid 3).

3.2 Very dirty looking substrate

Applies in all cases where the substrate is contaminated by resistant polluting agents such as diesel, tar, rubber marks.

General case:

Use a cloth soaked in ND 45 strong cleaner. If necessary, first use a non-abrasive flexible squeegee.

In all cases, then wash the areas concerned with the HEXIS'O solution.

For a vehicle full wrap:

In the case of a full wrap it is recommended to wash the vehicle with the help of our vehicle shampoo CARSHAMPOO and then to use the REMOVER liquid (liquid 1).

- › Work in a ventilated area. Wear gloves and protective goggles.

⚠ Carry out a preliminary compatibility test in a small inconspicuous area of the substrate to be treated. Certain plastic materials may indeed be damaged by the ADHESIVE REMOVER liquid (liquid 1).

- › Vaporise unto the contaminated surface and spread with a dry cloth.
- › Leave for a few moments, vaporise again with the ADHESIVE REMOVER liquid (liquid 1), then wipe the liquid with the help of a clean cloth or a squeegee.
- › When the substrate is clean and dry, carry out an additional clean with the help of the PRE CLEANER liquid (liquid 2), then finish with the FINAL CLEANER liquid (liquid 3) (see application above).

3.3 Special case

Think about adapting the substrate preparation methods to their type and condition. For instance, painted surfaces must be dry and hard and baked paints must have cooled. For air dried paints or car paints, at least one month of drying is required before the film is applied. For bare metal surfaces, clean the substrate with soapy water then with a cloth soaked in HEXIS'O solution (general case) or the PRE CLEANER liquid (liquid 2) followed by FINAL CLEANER (liquid 3) in the case of a full wrap.

Refer to the health and safety data sheet before use.

⚠ Wipe the surface thoroughly after cleaning.

4. APPLICATION OF FILM

The recommended installation temperature is between +15°C and 35°C (59°F to 95°F)

Application is by the «wet» method.

- › Prepare the vaporiser with one litre of mixture A of 3/4 water and 1/4 HEXIS'O; this mixture will accelerate the adhesive properties of the film.

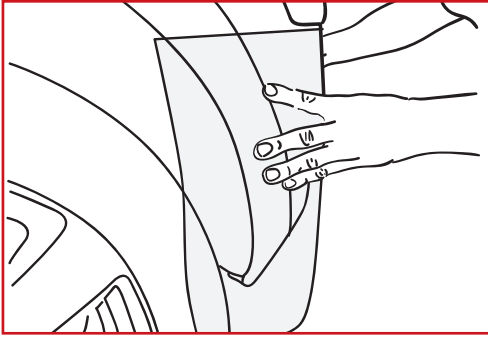
These A mixtures may vary depending on the ambient temperature and the relief of the surface to be protected.

ND45
strong cleaning
and degreasing
agent



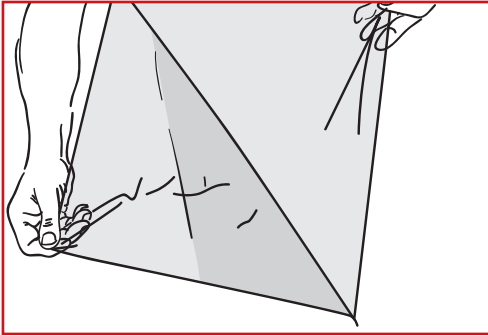
ADHESIVE REMOVER





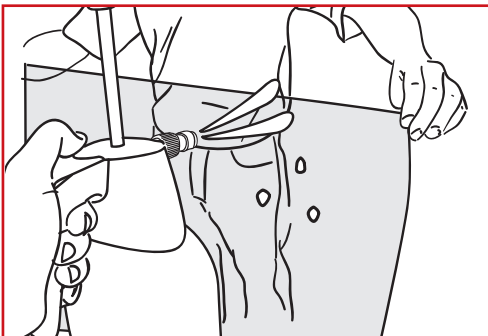
(FIG 01)

- › Measure the parts to be covered. Cut the CARPROTECT while leaving a margin of at least 10cm (4in) around the area to provide a great application, and avoid all finger marks. (FIG 01)



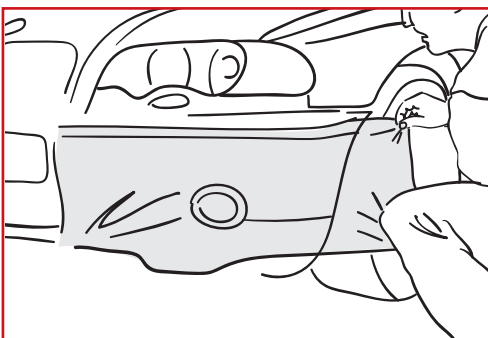
(FIG 02)

- › Gently remove the CARPROTECT protective film from the surface (the roll is reverse wound with the liner facing outside and the film facing inside for CARPRO150 gloss only).
- › Carefully separate the liner from the CARPROTECT. (FIG 02)



(FIG 03)

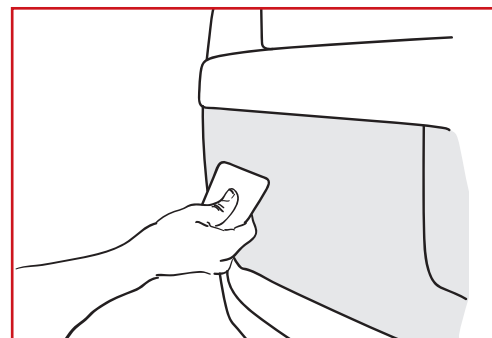
- › Spray the vehicle body with mixture A (starting with the front bumper for instance) and the adhesive side of the CARPROTECT. (FIG 03) This will enable you to position the product better on the vehicle.



(FIG 04)

- › Firmly stretch the CARPROTECT and apply to the area to be protected, and wrap it against its shape. (FIG 04)

> To improve the sliding of the squeegee, spray mixture A onto the CARPROTECT film then apply with the MARBLEU, inclining it at 45°. Press firmly to adhere to the surface and remove the water. (FIG 05)



(FIG 05)

> Considering the different paint grades available on the market, it may be necessary, to activate the adhesion, to spray deeply concave and/or convex parts with mixture A. Leave for approximately 5 minutes, then stretch and apply the film immediately.

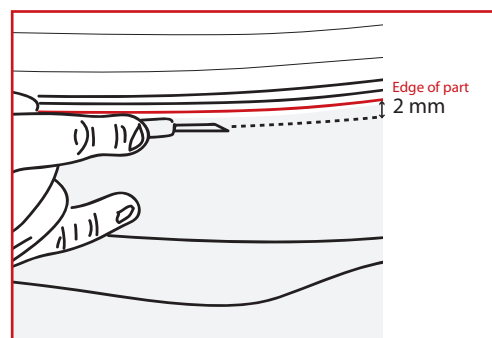
> Once the film has been applied to the front bumper, do the same for the back of the vehicle or the doors.

> After applying the CARPROTECT, cut as indicated in the following method:

> Use a cutter with a fresh blade.

> Make the cut directly on the vehicle body.

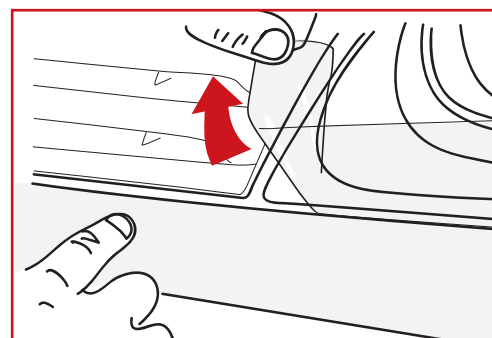
While tilting the cutter blade as far as possible, applying moderate pressure so as to cut into the film, without going all the way through, and without scratching the bodywork. Cut approximately 1 to 2 mm (0.1in) away from the edge of the part to be covered over. *To ensure the optimum adherence of film edges, do not cover the part to be protected edge to edge or leave any overlaps.* (FIG 06)



(FIG 06)

> Remove the surplus film by carefully starting a cut from the corner. Then pull the surplus away sharply and perpendicular to the cut. (FIG 07)

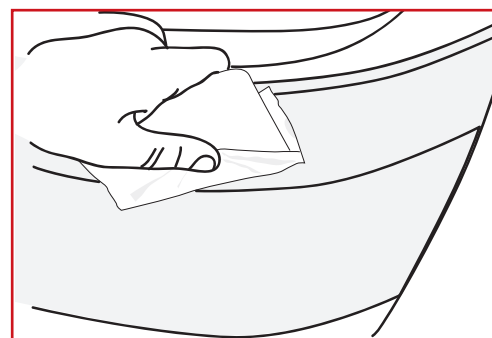
> If necessary, apply pressure again to the film using the MARBLEU.



(FIG 07)

> Place absorbent paper on the MARBLEU. Press down on the cut edges to remove as much humidity as possible. (FIG 08)

> If creases appear at the cut, press down with your finger for approximately 30 seconds.




(FIG 08)

> Never finish a cut in a sharp angle. Always use rounded sections.

5. CLEANING AND MAINTAINING THE CAR PROTECT

The CARPROTECT film can be cleaned by every conventional automatic cleaning method, using the cleaning products and detergents used for professional maintenance of vehicles and signage material.

Nevertheless, clean with all necessary care: apply average pressure at a minimum distance of 50cm (20in) and a water temperature of 35°C (95°F) maximum.

 *It is essential not to clean the film within the 48 hours of its application to avoid any risks of weakening the adhesion causing the film to lift off.*


 *Avoid the use of solvents and corrosive detergents.*

HEXIS tip: always test a small surface area before cleaning the entire surface of the areas to be covered over.

6. CARPROTECT REMOVAL METHOD

CARPROTECT film comes with a special adhesive designed to facilitate removal.


› Raise the corner gently with the cutter, without damaging the substrate and gradually remove the film; the film should form an angle of between 70° and 80° with respect to the substrate.

 *An angle that is wider or more acute will cause the film to break more easily.*

› Always proceed in small steps carefully lifting the film until it is removed entirely paying particular attention to the pulling angle and pulling speed.

› Continue to pull the film away gently until it is all removed while keeping a watchful eye on the pulling angle of the film and the pulling away speed.

› If any adhesive remains on the substrate, take a cloth dipped in our product HEXIS'O and rub the substrate until the marks disappear.

 *Before handling any of our products, refer to the technical data sheets on our Internet site www.hexis-graphics.com.*

For any additional technical information, refer to the technical data sheets which can be downloaded free of charge from our Internet site www.hexis-graphics.com from the section: Professionals, data sheets.

The wide diversity of marking substrates and ever new possibilities should prompt the user to examine the extreme capabilities of the product for each highly specific use.

However, this information can be considered to be an intangible guarantee factor. The vendor will cannot accept responsibility for any indirect damages and will only be liable for damage up to the price of its products. All our specifications may change without prior notice. The updating of our specifications is automatic on our site: www.hexisgroup.com



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