

PRODUCT BULLETIN

APPLICATION AND REMOVAL METHOD

HEX'PRESS Cast Films:

SUPER CHROME HX30SCH00B

REQUIRED EQUIPMENT

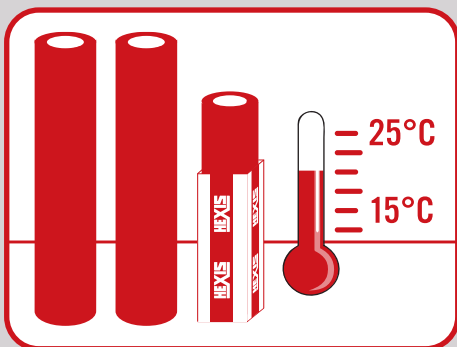
- › Adhesive tape Tesa® 50110
- › Masking tape
- › Liquids for the cleaning of application surfaces:
 - › SHAGREMOV
 - › SHAGCLEAN
- › ProTech® SHAMPCARV2 vehicle shampoo
- › Liquid for an easier application: MAGICSPRAY
- › Squeegees upon your choice from the catalogue
- › Thin masking tape strips (TIRODECO) or WRAPKNIFE
- › PISTHERMIQ heat gun or the blow torch
- › PISTLASER3 laser thermometer
- › Different HEXIS application tools
- › RSSEAL edge sealing tape
- › BODYFENCE protection film
- › SHAGRELOAD cleaning agents

STORE YOUR FILMS UNDER APPROPRIATE CONDITIONS

Keep the films away from any major source of heat (radiators and heaters, direct exposure to sunlight, etc.): the best temperature ranges from 15 °C to 25 °C (from 59 °F to 77 °F).

Store them in an atmosphere with low humidity (with relative humidity between 30 % and 70 %).

Keep your films in their original packaging. Each opened roll must be stored vertically or suspended in order to avoid pressure marks on the contact surface.



FEATURES

The Super Chrome films consist of a multi-layered film, a transparent surface protection film and a HEX'PRESS technology liner. Given their composition, the Super Chrome films have a gloss surface finish with mirror effect. Due to their high technical performance and conformability, they may be used on curved or textured surfaces (weldings and rivets). These products are specially designed for temporary vehicle wraps.

By their very nature, the Super Chrome films are more fragile than paints and require more regular maintenance.

PREPARING YOUR APPLICATION SURFACE

HEXIS films can be applied to a wide variety of substrates as long as the target surface is clean, dry, smooth, non-porous and free from any traces of oil, grease, wax, silicone or other contaminants. To avoid unexpected outcomes, always assume that every substrate is dirty and needs to be cleaned. (cf. chapter 3).

Do not forget to carry out a preliminary trial on a small surface to check that the substrate remains undamaged.

For further technical information on the Super Chrome films, please refer to the technical data sheet available on our website at www.hexis-graphics.com.

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1. RECOMMENDATIONS:

- › The colour of the films is controlled by HEXIS in order to ensure faithful reproduction of the colour tints. Nevertheless, should your project require the use of several rolls of a single colour reference, HEXIS recommend to use only one batch number of this colour.
- › Avoid applying the film on unpainted components (side strips, front or rear bumper, wing mirrors...).
- › The best adhesion of the Super Chrome films is achieved after 24 hours of contact.
- › Super Chrome films must only be installed by qualified professionals.

2. PRELIMINARY TEST OF THE APPLICATION SURFACES:

Before any application, the installer must first inspect the substrate and the paint to which the film will be applied.

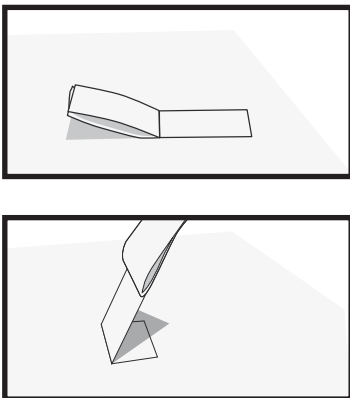
The installer and the client are responsible for the suitability evaluation of the target surface to be covered.

2.1. Preliminary inspection of the substrate:

- › Any fresh new paint must be dried for at least 7 days at 25 °C (77 °F) to outgas completely. An outgassing test must be carried out before applying the film.
- › Any old, powdery or flaky paint must be sanded and renewed before application and must undergo a tear-off test.

 *Application of the film on an unsuitable paint, releases HEXIS from any liability.*

2.2. Tear-off test:



Using a TESA® 50110 adhesive tape, or the like, apply on a surface of 2.5 cm x 5 cm (1 in. x 2 in.) plus some overhang material for easier removal. Fold and promptly tear off perpendicularly to the substrate surface. The film must generate a certain resistance during its removal. Repeat this process in several places.

> On request, HEXIS can provide you with a Tesa® adhesive tape in 2.5 cm x 5 cm (1 in x 2 in) size. HEXIS cannot be held liable for any damage to the substrate following the execution of this test.

2.3. Outgassing test:

(For checking) Use a square of around 15 cm x 15 cm (6 in. x 6 in.) of self-adhesive polyester or of the film to be applied. Wait for 24 hours or 2 hours at 65 °C (149 °F). The appearance of bubbles indicates that the substrate has insufficiently outgassed. Therefore, this process should be repeated after a couple of days; or else the procedure described below should be carried out.

2.4. Outgassing procedure with flame treatment:

(Polycarbonate, translucent or diffusing methacrylate, expanded PVC, etc.)

This method consists of changing the surface tension of a substrate by swiping it with the flame of a gas burner. Using the flame's blue tip, proceed evenly with fast sweeps horizontally and vertically along the whole substrate surface.

 *MOVE THE FLAME IN SWIPING MOTIONS ON THE SUBSTRATE (RISK OF DESTROYING THE SUBSTRATE IF A FIXED POINT IS HEATED MORE THAN A SECOND).*

The film must be applied right after that treatment as this light surface treatment disappears after few minutes.

> *HEXIS are not liable for any bubbles caused by outgassing.*

3. CLEANING:

Cleaning of the substrate is required before performing the application. It should always be assumed that the substrate is contaminated with dirt. Some residues or contaminants may not be visible; however, they may impact the adhesion of the film.

⚠ *Before using any cleaning liquids or chemicals, please refer to the Technical Data Sheets and Safety Data Sheets available for download on our website: www.hexis-graphics.com.*

3.1. Clean and soiled surface appearance:

For vehicle wraps, it is advised to wash the vehicle with the SHAMPCARV2 vehicle body shampoo, then carry out a final cleaning using the SHAGCLEAN product.

3.2. Heavily soiled surface appearance:

For vehicle wraps, it is advised to wash the vehicle with the SHAMPCARV2 vehicle body shampoo, then use the SHAGREMOV product.

⚠ *Use the SHAGREMOV product in a ventilated area. Wear protective gloves and goggles.*

Prior to treatment, run a compatibility test on a small, inconspicuous area of the substrate to be treated. Certain plastic materials may be damaged by the SHAGREMOV.

- › Spray the SHAGREMOV product on the dirty surface and spread it out using a dry cloth.
- › Wait for a few minutes. Then spray the SHAGREMOV product again and wipe the surface dry with a clean cloth or squeegee.
- › When the substrate is clean and dry, carry out a final cleaning with the SHAGCLEAN product.

3.3. Special case:

Remember to adapt the preparation methods to the substrate type and its condition. Thus, painted surfaces must be dry and hard, baked paints must be cooled down. Air-dried paints or car paints need to be dried for a minimum of one month before applying the film.

- › For bare metallic surfaces in the case of a full wrap:
 - › Clean the substrate with soapy water and then with a cloth soaked with the SHAGCLEAN product.

⚠ *Refer to the Product Safety Data Sheet prior to use.*

- › Thoroughly wipe down the surface after the cleaning process.

4. APPLICATION OF THE SUPER CHROME FILM:

- › Super Chrome films must be applied according to the "dry" application method using a squeegee covered with a unused felt sheet.

The HEX'PRESS technology allows easy repositioning of the vinyl on the substrate during application.

However, the Super Chrome film must be firmly squeegeed to achieve optimum adhesion on the substrate.

SHAMPCARV2
Concentrated vehicle
shampoo



SHAGREMOV
Powerful cleaning
agent



SHAGCLEAN
Cleaning and
degreasing finishing
agent



- › Before any application of the Super Chrome film, make sure that all surfaces be clean (cf. Paragraph 3) and dry, paying particular attention to critical areas such as corners, edges, curves, etc.

⚠ *Hygrometry may also impact the adhesion of the film on the substrate.*

- › The ideal application temperature is between 20 °C and 25 °C (68 °F and 77 °F) and should be evenly complied for both the ambient and the substrate temperatures.
- › The minimum application temperature is 20 °C (68 °F). Avoid applications in colder environments. Indeed, due to their specific structure, these products tear off easily in cold working conditions.
- › The Super Chrome films can be easily scratched (in particular when using the squeegees). For this reason during application of these films, particular attention must be paid to ensure that:
 - the squeegees used are covered with a unused felt sheet
 - the optimum working angle of the squeegee is complied with.

HEXIS advice: To enhance the surface sliding of the squeegee on the film while limiting the risk of micro-folds during this phase, it is highly recommended to spray the application liquid MAGICSPRAY on the squeegee surface as soon as necessary, until completion of the film application.

- › The installation should be carried out wearing GANTSCOV.
- › To avoid deformation of the film during storage, it is essential to store the rolls closed.

⚠ *The opened rolls must be properly closed right after use, using a Tiro-like adhesive tape in order to avoid the formation of tunnelling.*

4.1. Removal of the surface protection film:

Super Chrome films have been provided with a clear surface protection film to protect them against dust, scratches, traces of handling, etc. during storage and after opening, and give them a higher storage rigidity. For notification at receipt, you will find an information sheet affixed to the roll.

- › The clear protection film must be removed right before applying the product.
- › There are two options when removing this protective film:

4.1.1. In the case of a new roll:

An adhesive strip is positioned on a corner, between the protective film and the Super Chrome film.

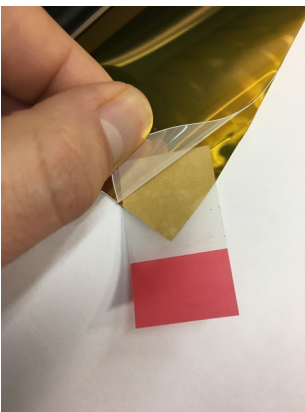


Figure 01

- › Lift the protective film at the strip position so that it can be easily removed. (FIG. 01)

4.1.2. In the case of a used roll:

- › Using a cutter is mandatory.
- › Slide out several blades (4-5).
- › Draw a line with the cutter into the protective film, 3 or 4 cm (1.81 or 1.57 in.) from the corner, without cutting the Super Chrome film + liner. (FIG. 02)

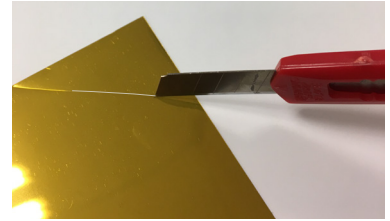


Figure 02

- › Place the cutter tip in the notch and lift the protective film. (FIG. 03)
- › It is now possible to remove this film.

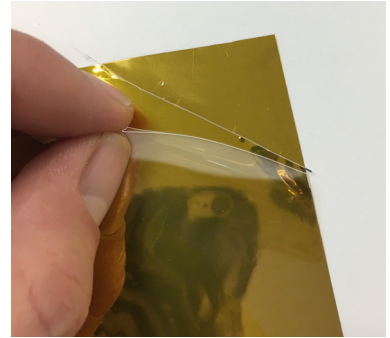


Figure 03

4.2. First steps and application of the Super Chrome film on flat surfaces:

- › Before any application, you must thoroughly inspect the entire film surface.

HEXIS disengage from any liability in the case of complaints produced after the report of an appearance flaw (scratches, bubbles, matt area...) made after removal of the HEX'Press liner.

! *Be careful not to go beyond the limits of the product: the Super Chrome films may undergo slight and irreversible alteration of their appearance (whitening, loss of gloss) if the films are stretched or deformed beyond their limits. The maximum acceptable deformation is 20 %.*

! *Due to their mirror finish, the Super Chrome films store rapidly and durably heat. The rise in temperature of the film during installation with a heat gun or a blow torch is faster and longer than that of other products of the HX30000 series. Such a behaviour should be taken into account during installation. In particular, take care not to burn yourself while handling the film.*

Any heating operation indicated below must be carried out with the heat gun or the blow torch by performing sweeping motions at a reasonable distance. The temperature must be checked with the laser thermometer on the film's surface, in the heated area, right after withdrawal of the heat gun's hot air flow.

! *If the heat flow is maintained on a fixed spot or near the surface of the film, it may result in an irreversible deterioration of the product. Do not measure the temperature in the air flow of the heat gun. This would give a wrong measurement and could lead to an insufficient reheating temperature (risk of the film peeling off later on).*

- › Wear GANTSCOV gloves.

- › Position the film on the target surface using pieces of adhesive tape (FIG. 04)



Figure 04


 Do not use magnets or other accessories to position the film as the risk of scratching is particularly high.



Figure 05

- ▶ Using masking tape, make a horizontal hinge on the top part, preferably on a flat area. (FIG. 05)

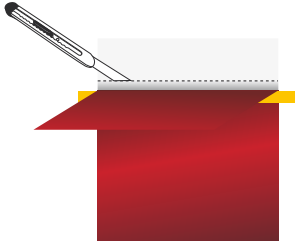


Figure06

- ▶ Peel off 10 cm (4 in) of the liner. (FIG. 06)

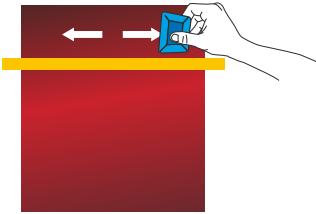


Figure07

- ▶ Start applying the film with a squeegee (previously covered with felt), by forming a 45° angle with the substrate, and by working from the centre towards the edges. (FIG. 07)

HEXIS advice: To enhance the surface sliding of the squeegee on the film, it is highly recommended to spray the application liquid MAGICSPRAY on the surface of the latter as soon as necessary, until completion of the film application.

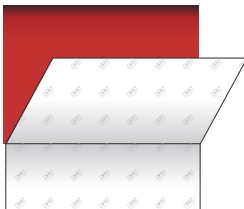



Figure08

- ▶ Remove the top hinge and continue removing the liner, depending on the surface pattern (cf. paragraphs below). (FIG. 08)
- ▶ During application on flat surfaces, squeegee the entire surface by gradually removing the liner, and by firmly pressing on the edges and corners.

4.3. Undulated surfaces:

Any heating operation indicated below must be carried out with the heat gun or the blow torch by performing sweeping motions at a reasonable distance. The temperature must be checked with the laser thermometer on the film's surface, in the heated area, right after withdrawal of the heat gun's hot air flow.

 If the heat flow is maintained on a fixed spot or near the surface of the film, it may result in an irreversible deterioration of the product. Do not measure the temperature in the air flow of the heat gun. This would give a wrong measurement and could lead to an insufficient reheating temperature (risk of the film peeling off later on).

Having completed step 4.2, you may come across slight or pronounced undulations for which the application process will be different.

For highly undulated surfaces, proceed with the “extended application method” as follows:

- › Gradually remove the liner while pulling it downwards (FIG. 09)
- › Apply the film with the thumb or the squeegee by wiping down horizontally into the hollow part of the undulation.
- › Start applying the hollow part ①, then the raised part ②, and then the hollow part ③.
- › Go onto the following undulation ④, then keep going ⑤ until completion of the application.
- › As the film was not stretched permanently, it is not necessary to heat again to 80 °C (176 °F).
- › The application is completed.

! In the hollow parts, the HEX'PRESS adhesive technology requires sufficient pressure in order to completely expel out any air that may remain in the micro-channels. This is because the air that has not been egressed and that is not visible to the eye may later result in the film peeling off from its substrate.

HEXIS advice: To enhance the surface sliding of the squeegee on the film, it is highly recommended to spray the application liquid MAGICSPRAY on the surface of the latter as soon as necessary, until completion of the film application.

4.4. Concave surfaces:

Any heating operation indicated below must be carried out with the heat gun or the blow torch by performing sweeping motions at a reasonable distance. The temperature must be checked with the laser thermometer on the film's surface, in the heated area, right after withdrawal of the heat gun's hot air flow.

! If the heat flow is maintained on a fixed spot or near the surface of the film, it may result in an irreversible deterioration of the product. Do not measure the temperature in the air flow of the heat gun. This would give a wrong measurement and could lead to an insufficient reheating temperature (risk of the film peeling off later on).

When step 4.2 is finished, proceed as follows:

- › Remove the whole liner by pulling it off. (FIG. 10)

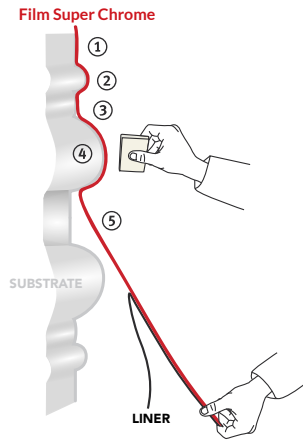


Figure 09



Figure 10

- › Stretch the vinyl on the substrate so that the film touches the raised parts only. (FIG. 11)

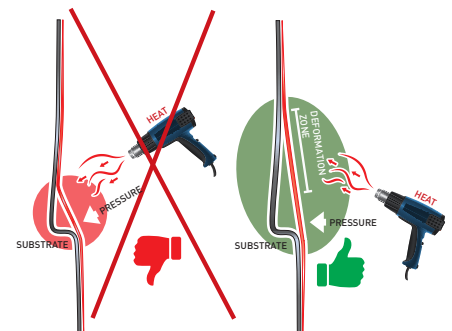


Figure 11

- › Apply the raised parts with a finger or a felt-covered plastic squeegee. (FIG. 12)

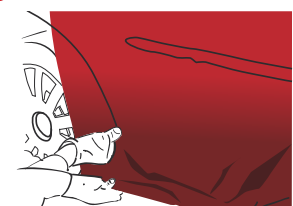


Figure 12



Figure 13

- ▶ If necessary, lift again and stretch again the film; then apply it.

- ▶ Heat to a temperature ranging from 30 °C to 40 °C (from 86 °F to 104 °F) and lower your thumb in the hollow part so as to properly apply the adhesive. (FIG. 13)

⚠ *HEX'PRESS adhesive technology makes the film repositionable during application and allows easy elimination of air bubbles. However, particularly in concave areas, HEX'PRESS adhesive technology requires sufficient pressure in order to completely expel out any air that may remain in the micro-channels. Indeed, the air which has not been eegressed and which is not visible to the eye may later result in the film peeling off from its substrate. HEXIS recommend you to pay particular attention to the application of HEX'PRESS films in concave areas.*

HEXIS advice: In order to reduce the risk of micro-folds generated during the air evacuation phase, it can be necessary to increase the surface sliding of the squeegee on the film. For this purpose, spray the application liquid MAGICSPRAY on the squeegee surface as soon as necessary, until completion of the film application.

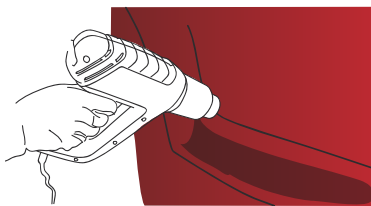


Figure 14

- ▶ Once this step is completed, heat again all the hollow parts which have undergone heavy deformation between 80 °C and 90 °C (176 °F and 194 °F) to thermoform the product definitively. (FIG. 14)

If any areas turn out to be too concave, we recommend that you overlap the film in the application by proceeding in the following manner:

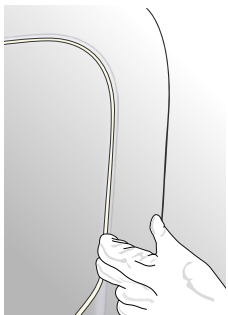


Figure 15

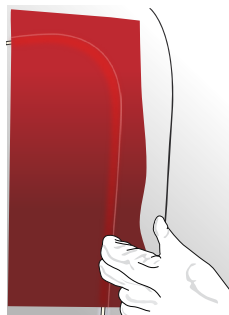


Figure 16

- ▶ Put on a glove and apply a strip of TIRODECO or WRAPKNIFE tape to the lower edge of the substrate to be wrapped, as close as possible to the deformation. (FIG. 15)
- ▶ Stretch the vinyl over the substrate so that it touches the raised surface. Then apply the film to the raised surface. (FIG. 16)

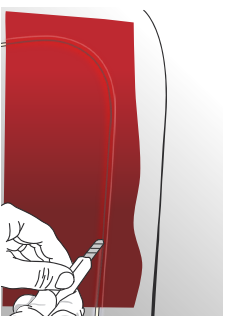


Figure 17

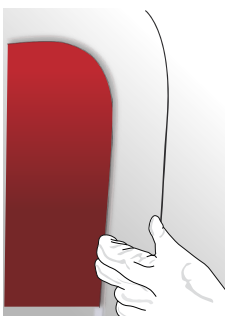


Figure 18

- ▶ Carry out the cutting of the film by using a cutter on the TIRODECO or by cutting it with the WRAPKNIFE cutting thread. (FIG. 17)
- ▶ Remove the excess upper film as well as the TIRODECO or the WRAPKNIFE protective film. Then firmly press on the film edge with your finger or a felt-covered plastic squeegee. (FIG. 18)

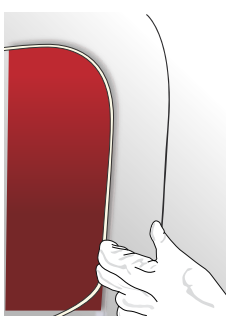


Figure 19



Figure 20

- ▶ Apply a new strip of TIRODECO or WRAPKNIFE to the film, along the previous cut, so as to obtain a final film overlapping of about 3 mm. (FIG. 19)
- ▶ Apply the vinyl to the upper part of the substrate to be wrapped so that it touches the raised surface. Then apply the film to the raised surface. (FIG. 20)

⚠ *If the upper film needs to be repositioned, separate it from the lower film with extreme care.*

- › Carry out the cutting of the film by using a cutter on the TIRODECO or by cutting it with the WRAPKNIFE cutting thread. (FIG. 21)
- › Remove the excess film as well as the TIRODECO or the WRAPKNIFE protective film. Then firmly press on the film edge with your finger or a felt-covered plastic squeegee. (FIG. 22)
- › Heat the deformed parts to a temperature ranging from 30 °C to 40 °C (from 86 °F to 104 °F) and press your finger into the hollow part to apply the adhesive.



Figure 21



Figure 22

4.5. Convex surfaces:

Any heating operation indicated below must be carried out with the heat gun or the blow torch by performing sweeping motions at a reasonable distance. The temperature must be checked with the laser thermometer on the film's surface, in the heated area, right after withdrawal of the heat gun's hot air flow.

! *If the heat flow is maintained on a fixed spot or near the surface of the film, it may result in an irreversible deterioration of the product. Do not measure the temperature in the air flow of the heat gun. This would give a wrong measurement and could lead to an insufficient reheating temperature (risk of the film peeling off later on).*

When step 4.2 is finished, proceed as follows:

- › Remove the liner
- › Heat the vinyl (FIG. 23) to a temperature ranging from 30 °C to 40 °C (from 86 °F to 104 °F), then stretch the film so as to completely wrap the convex surface. (FIG. 24)
- › Apply the film over the whole surface using a felt-covered, plastic squeegee, and carefully wipe over the convex area (FIG. 25) to eliminate any tensions and folds.
- › If necessary, lift the film, stretch it again and completely wrap the convex surface, then apply it. (FIG. 26)
- › After this operation, heat to a temperature ranging from 30 °C to 40 °C (from 86 °F to 104 °F) (FIG. 27) and work the memory effect of the film to eliminate all folds using the squeegee.
- › Cut, if necessary, and heat again all the edges to a temperature ranging from 80 °C to 90 °C (from 176 °F to 194 °F).
- › The application is finished. (FIG. 28)

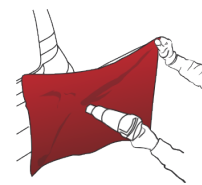


Figure 23



Figure 24

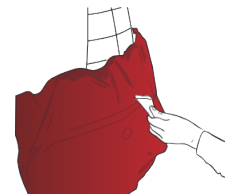


Figure 25

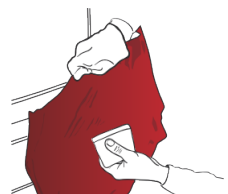


Figure 26

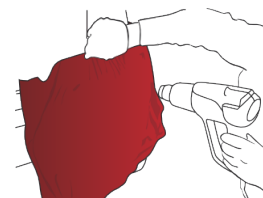


Figure 27

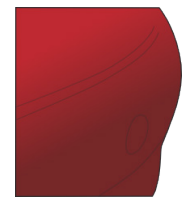


Figure 28

! *Take particular care when heating the stretched film (FIG. 23) (FIG. 27). The hot air gun or the blow torch must never be held at a right angle to the surface of the film. It should be inclined so as to heat a larger surface area. Keep the hot air gun moving all the time. Heating the film from a reduced distance and over a prolonged time may irreversibly damage the film.*

4.6. Overlaps:

If two film parts or two widths of the same reference need to overlap, it is important to comply with the following instructions in order to achieve coherent appearance (colour, gloss, texture...) and optimum adhesion of one film on the other:

- › Clean the lower film using a microfibre cloth soaked with HEXIS SHAGCLEAN. Leave to dry.
- › Unroll the upper width or upper part in the same direction as the lower width or lower part.

! *If the upper film needs to be repositioned, separate the lower film with extreme care.*

- › Apply the upper film. Press down strongly on the overlapped area using your gloved hand or a squeegee while heating the area at around 30 °C (86 °F).

4.7. Additional information for a vehicle full wrap:

It is recommended to dismantle as many components as possible (covers, trims, indicator lights, etc.) before installing the film.

- › For vehicles, application on the window and body panel seals, any unpainted areas such as trim strips or unpainted bumpers that may not have been removed is strictly prohibited.

It is recommended to wrap each part separately and independently.

4.7.1. Overlap of widths:

- › If an overlap of widths is necessary, HEXIS recommend to do it over 1 cm (0.4 in.) with:

- Horizontal overlap: The upper part of the film (above) is applied to the lower part of the film (below) (tiling strategy).
- Vertical overlap on a mobile surface: Assuming you always apply the film starting from the rear of the vehicle and moving to the front, then the overlapping will be done in the same way. (FIG. 29)

HEXIS tip: Where possible, use the edges to conceal the cuts.

! *If the upper film needs to be repositioned, separate the lower film with extreme care.*

4.7.2. Horizontal installation:

- › Whenever a horizontal application becomes necessary as on engine hoods or roofs, this may lead over time to a slight fading of colour or gloss compared to vertically exposed areas. In regards to the product's durability, HEXIS are in no way liable for the areas which are most exposed to sunlight or severe climatic changes.

4.7.3. Application method:

Any heating operation indicated below must be carried out with the heat gun or the blow torch in sweeping motions at a reasonable distance. The temperature must be checked with the laser thermometer on the surface of the film during heating.

! *If the heat flow is maintained on a fixed spot or near the surface of the film, it may result in an irreversible deterioration of the product. Do not measure the temperature in the air flow of the heat gun. This would give a wrong measurement and could lead to an insufficient reheating temperature (risk of the film peeling off later on).*

For whichever part to be wrapped:

- › Measure the areas to be wrapped. Cut the film by leaving a margin of at least 10 cm (4 in) all around the surface so as to be able to tension it during application and avoid leaving fingerprints.

Install the film proceeding part by part (e.g. doors, hatch, bonnet, etc.).

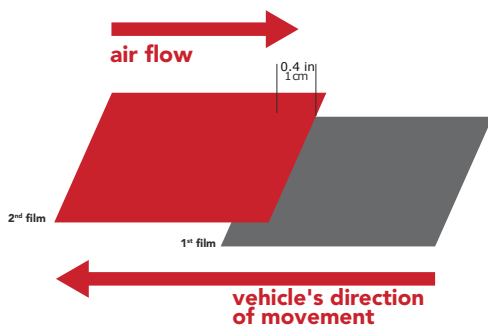


Figure 29

- › Avoid applying the Super Chrome film on unpainted components such as trims or unpainted bumpers.
- › The initial steps are the most important and here are some essential advices:
- › Make a horizontal hinge as indicated above (chapitre 4.2. First steps and application of the Super Chrome film on flat surfaces; page 5) just above the door handles.
- › Cut and remove the liner from the upper part.
- › Tension the film and apply it using a felt-covered squeegee.
- › Once the upper part is applied, remove the remaining liner from the lower part.

- › Tension the film over the door handles and, using a squeegee, apply the film all around the door handle contours. (FIG. 30)



Figure 30

- › Once the door handles are done, tension the film down to the bottom of the vehicle body. (FIG. 31)

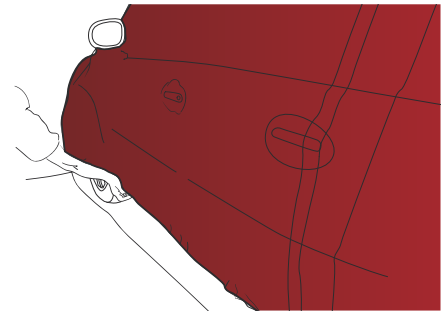


Figure 31

- › If necessary, lift and stretch the film again, by heating it to a temperature ranging from 30 °C to 40 °C (from 86 °F to 104 °F) so as to remove any folds.

- › The film is now stretched over the entire surface area to be wrapped. Now you can apply the film (FIG. 32) as described in the paragraphs 4.3 to 4.5 according to the type of surface.

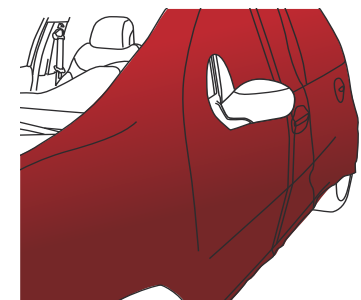


Figure 32

5. RELEASING TENSION:

Before proceeding with cuts, it is necessary to release the tension along the edges of the film to eliminate the curling and shrinkage effect that may appear during heating.

Any heating operation indicated below must be carried out with the heat gun or the blow torch in sweeping motions at a reasonable distance. The temperature must be checked with the laser thermometer on the surface of the film during heating.

! *If the heat flow is maintained on a fixed spot or near the surface of the film, it may result in an irreversible deterioration of the product. Do not measure the temperature in the air flow of the heat gun. This would give a wrong measurement and could lead to an insufficient reheating temperature (risk of the film peeling off later on).*

- › Peel off the film from the vehicle body over about 2 cm (1 in.).
- › Heat the edges of the film to a temperature ranging from 30 °C to 40 °C (from 86 °F to 104 °F).

Any curling or waves appearing indicate a wrong installation and particularly tension problems. In this case, peel off the film from the vehicle body, heat it to a temperature ranging from 30 °C to 40 °C (from 86 °F to 104 °F) to return to normal tension and apply it again with the felt-covered squeegee without exercising too much pressure. Then start step 5 from the beginning.

- › If no curl or shrinkage is obvious, apply the film until the edge of the vehicle body using a felt-covered squeegee.

6. USE OF THE HEAT GUN OR THE BLOW TORCH:

Any heating operation indicated below must be carried out with the heat gun or the blow torch in sweeping motions at a reasonable distance. The temperature must be checked with the laser thermometer on the surface of the film during heating.

! *If the heat flow is maintained on a fixed spot or near the surface of the film, it may result in an irreversible deterioration of the product. Do not measure the temperature in the air flow of the heat gun. This would give a wrong measurement and could lead to an insufficient reheating temperature (risk of the film peeling off later on).*

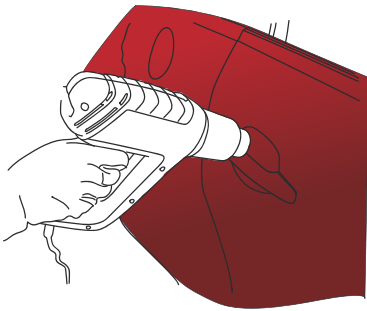


Figure 33

- › Once the application is finished, heat again all the parts which have undergone severe deformation using the heat gun. (FIG. 33)

- › The heating temperature must range from 80 °C to 90 °C (from 176 °F to 194 °F). Check it using the laser thermometer PISTLASER3.

Heating enables the acceleration of the adhesion process of the pressure-sensitive adhesive. In this way, the film will be definitively thermoformed.

Due to their mirror finish, the Super Chrome films store rapidly and durably heat. The rise in temperature of the film during installation with a heat gun or a blow torch is faster and longer than that of other products. Such a behaviour should be taken into account during installation. In particular, take care not to burn yourself while handling the film.

7. CUTS AND FINISHINGS:

7.1. Straight cut with overlap:

To avoid scratching the substrate, the cutter blade must always be parallel to and in contact with the vehicle body.

- › Put on GANTSCOV gloves.
- › Use a cutter with a new blade.
- › Shape the film with your gloved finger on the part's contours. (FIG. 34)

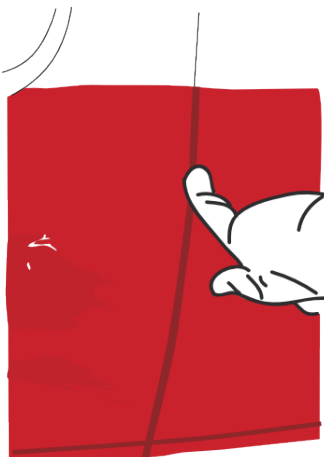


Figure 34

- › For the cut, the cutter blade must be placed against the edge of the adjacent part. When cutting, make sure you always go along the same line as the cut with the blade is inclined towards the outside. (FIG. 35)



Figure 35

- › After the cut, 2 to 3 mm of the film (1 to 1½ in.) should be left over the edge of the vehicle parts. (FIG. 36)

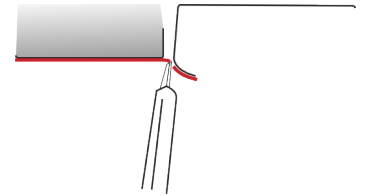


Figure 36

If there are no adjoining parts, cut the film surplus leaving just 2 to 3 mm of film (1 to 1½ in.).

- › To finish, run the squeegee over the cut. Incline the squeegee towards the thinner edge (FIG. 37). Firmly apply over the edges, round parts and neighbouring or opposed areas.
- › Remove any excess film.



Figure 37

7.2. Straight cut without overlap:

This method is used for a cut along a joint or any trim that cannot be disassembled.

- › Use a cutter with a new blade.

- › Shape the film with your finger on the part's contours. Lift the film of the adjacent part and drag it into the hollow using a squeegee so as to shape the joint edge. (FIG. 38)

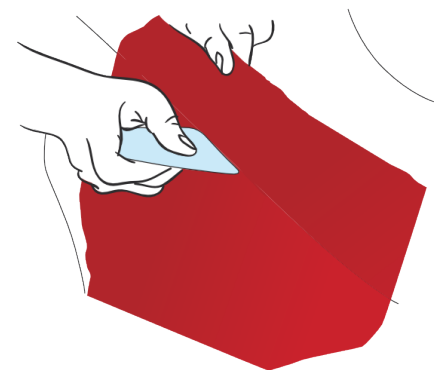


Figure 38



Figure 39

- › For the cut, the blade must be placed in a flat position, between the body and the joint, and perpendicular to the joint. When cutting, have the blade run carefully along in the same direction. (FIG. 39)

- › Remove any excess film.
- › Finish off by running the squeegee over the cut.

8. EDGE SEALING TAPE:

HEXIS recommend using RSSEAL sealing strips (for straight or slightly curved surfaces) or Bodyfence patches (for complex graphic elements such as flames, etc.) in order to protect and reinforce the edges of Super Chrome films located nearby areas exposed to heavy wear such as door sills, wheel cages, etc.

8.1. RSSEAL TAPE:

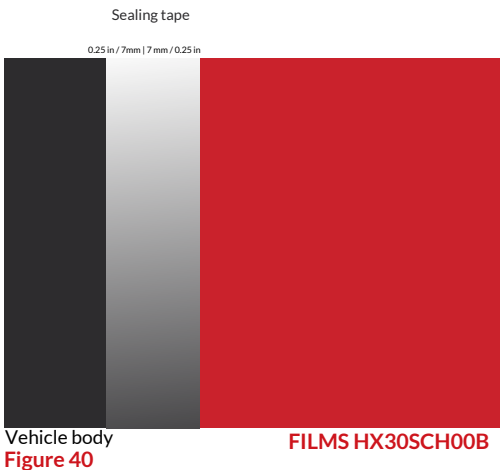


Figure 40

- › Apply the strip by overlapping it by approximately 7 mm (¼ in.) over the body work and 7 mm (¼ in.) over the Super Chrome film. (FIG. 40)

8.2. Bodyfence Patch:

- › Bodyfence patches will be used for the protection of complex shapes, such as flames, which have been produced with a cutting plotter.



Figure 41

- › Using a plotter, cut out a Bodyfence film in the same shape of the graphic that is to be protected.

Note: The size of the patch should be slightly larger so that its borders overlap those of the Super Chrome film graphic by about 5 mm. (FIG. 41)


- › Apply the patch to the Super Chrome film with a squeegee.
- › Firmly press the squeegee over the edges.

9. FINISHING:

At the end of the application, leave the vehicle (or the wrapped component) in an environment with a temperature ranging from 15 °C to 25 °C (from 59 °F to 77 °F) and a relative humidity between 30 % and 70 % for at least 12 hours.


Finally check all areas where the film was cut. If the film peels off or wrinkles, apply again the edges under strong pressure using the squeegee.


In order to achieve a perfect mirror aspect with the Super Chrome film, we recommend you to complete the application work by cleaning the film's surface with a microfibre cloth and the SHAGRELOAD maintenance product.

 *After its application, wait for at least 24 hours before proceeding to the final cleaning in order to ensure optimum film adhesion.*

10. CLEANING AND MAINTENANCE OF THE SUPER CHROME FILMS:

To maintain a perfect finish over time, the Super Chrome films may require more frequent and more careful cleaning than other self-adhesive films. For optimum maintenance of your Super Chrome film, HEXIS suggest to use their range of ProTech® cleaning agents specially designed for the total wrap.

 *However, do not wash the film within the 92 hours following its application as this can affect the adhesion that may result in the film peeling off.*

 *As the Super Chrome films are fragile products, the numerous abrasive particles (sand, dust, etc.) that may deposit on the surface of the film during its life cycle may during successive washings irrevocably deteriorate the film. HEXIS decline all liability for damages occurred during washings.*


10.1. Soiled surfaces:

- › Generously moisten the film with water to remove all dust.
- › Carefully wash the vehicle with the SHAMPCARV2 vehicle shampoo distributed by HEXIS and a natural sponge.
- › Completely dry the vehicle using microfibre cloths.
- › Use the SHAGRELOAD product for the final finish.

10.2. Slightly soiled surfaces:

For a regular cleaning of the vehicle, use the SHAGRELOAD product with a clean microfibre cloth.

- › Spray directly onto the surface (± 40 cm x 40 cm / 15 in. x 15 in.).
- › Wipe with a microfibre cloth before the product dries.


 *Cleaning the Super Chrome films in automatic car washes and / or high-pressure cleaners must absolutely be avoided. HEXIS decline all liability for any damages caused by these cleaning methods.*

11. REMOVAL PROCEDURE:


The Super Chrome films feature a permanent adhesive and therefore their removal needs some attention. Nevertheless, by following the instructions below, the removal will be relatively easy.


- › Using a heat gun, start from a corner and heat the film to a temperature of around 60 °C (140 °F) (use the laser thermometer).

- › Lift the corner gently with the cutter – available in the tool case – without damaging the substrate, and gradually remove the film previously heated; the film should form an angle of 70° to 80° relative to the substrate.

 *An angle more or less wide or acute will cause the film to break more easily.*

- › Always proceed gradually by heating small areas while carefully removing the film so as to limit the risk of leaving any adhesive on the substrate or tearing off the film.
- › Continue to carefully heat and peel off the film gently until it is completely removed while keeping a watchful eye on the heat applied, on the pulling angle of the film, and the pulling speed.
- › If any adhesive remains on the substrate, take a cloth soaked with our SHAGREMOV product and rub the surface until all traces disappear.

 *Prior to treatment, run a compatibility test on a small, inconspicuous area of the substrate to be treated. Indeed, certain plastic materials might be damaged by the SHAGREMOV product.*

 *Before using any of our liquids, please refer to the technical data sheets on our website at www.hexis-graphics.com.*

For further technical information, please refer to the Technical Data Sheets available for free download from our website www.hexis-graphics.com, on the “Professionals” pages.

Due to the great variety of substrates and the growing number of new applications, the installer must check the suitability of the media for each application. All the published information does not however constitute a binding guarantee. The seller cannot be held liable for indirectly related damages and assumes no liability for claims that are higher than the replacement value of the purchased product. All specifications are subject to potential changes without prior notice. Our specifications are automatically updated on our website www.hexis-graphics.com.

