

## Mounting instruction – Car wrapping with euromedia 3D SmartApply



### Choice of films

Choose a film appropriate to the underground you want to wrap. Fujifilm recommends euromedia 3D SmartApply for the wrapping of complex undergrounds (rivets or channels). For flat and slightly curved undergrounds we recommend 2D SmartApply. Combine the chosen film with the matching laminate (euromedia 3D and 2D Laminate gloss / matt) to protect the film against external influences.

### Preparation

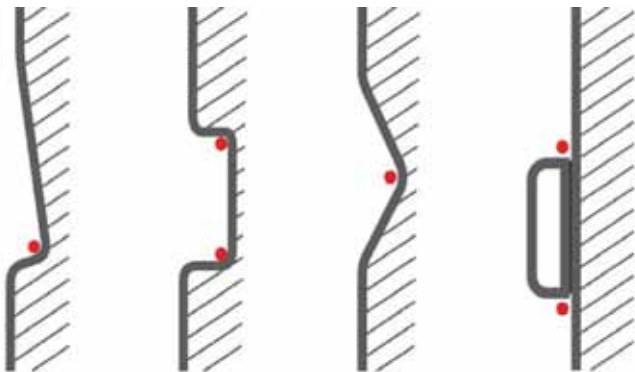
Clean the underground with water and degrease the surface with a cloth without any particles on it and impregnated with solvent based cleanser. Don't forget to clean critical zones like edges and welding joints. Subsurface must be absolutely clean off cleanser or degreaser and the surface must be dry. Please be aware: The recommended application temperature of 3D SmartApply on flat undergrounds is 4.4 °C to 38 °C and on curved undergrounds with rivets and channels 15 °C to 38 °C. The service temperature range lies between - 40 °C and + 79 °C.

## Installation of 3D SmartApply at complex undergrounds

This relatively new and innovative technique should be used whenever cast film is stretched, e.g. car wrapping or in signage applications. Not only does this technique prevent the film from lifting or coming off in “risk areas”, it offers other advantages such as a more consistent appearance, and less risk of any type of failure.

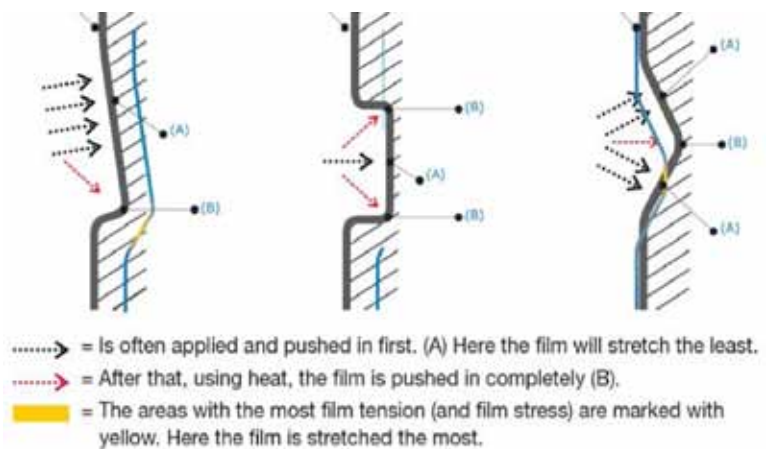
When wrapping a car, you will always have to deal with sharp edges and deep grooves where normally the film would thin out and could discolor. This simply can be solved by shifting and spreading the film tension.

Risk areas in different grooves



• The red circles represent the groove's most critical risk areas, where the film usually is pushed in. These are pre-eminently the places where the film will lift.

Wrong film application & film stretching



### Why shifting tension?

There are several reasons; the most important one is the possibility that the film could lift out of a deep groove or channel, where the vinyl has been stretched during application. Moreover, the film could be stretched in such a way that the color or texture in the channels and grooves can visibly change.

### How does it work?

Heat the film in a place where it can lay flat and without tension (A). This is where the film can be stretched, whereas film should not be stretched into any groove or channel. Now push the film evenly into the groove (B). When necessary, reheat the film in the area (A) and continue to push the film down into the area (B), until the groove is wrapped. Then, squeegee quickly and firmly to secure the film into the groove, then squeegee quickly and firmly in area (A) to secure the application. Notice that the channel film is completely unstressed and without tension. It will not lift here if applied properly using this technique.

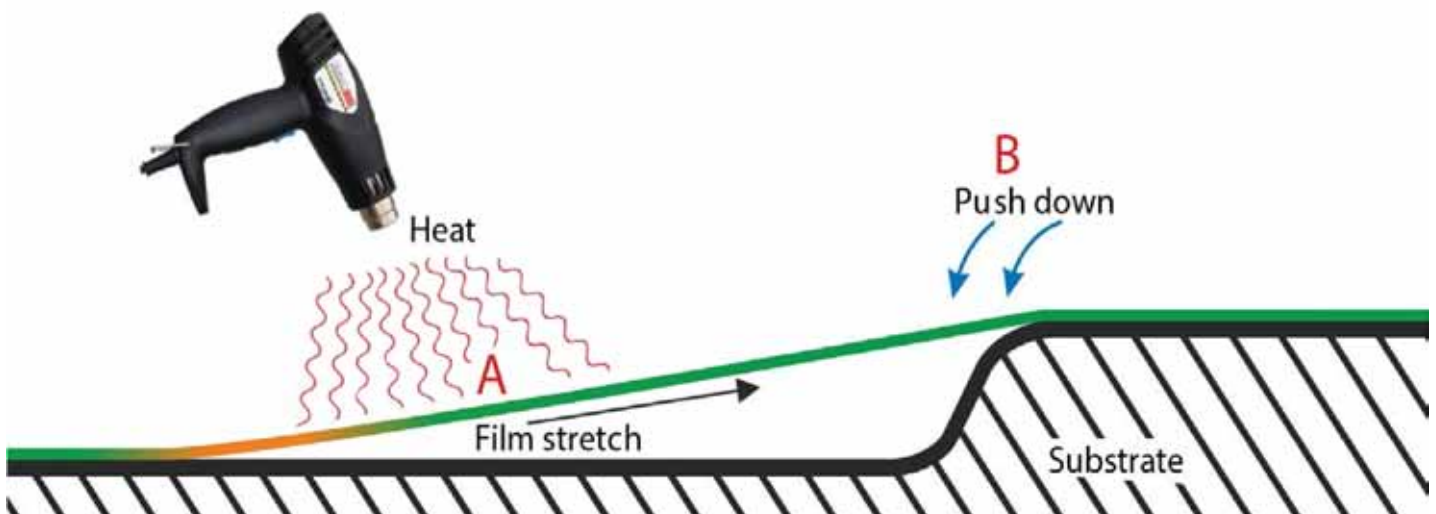


FIG. 1

FIG. 2

FIG. 3

FIG. 4

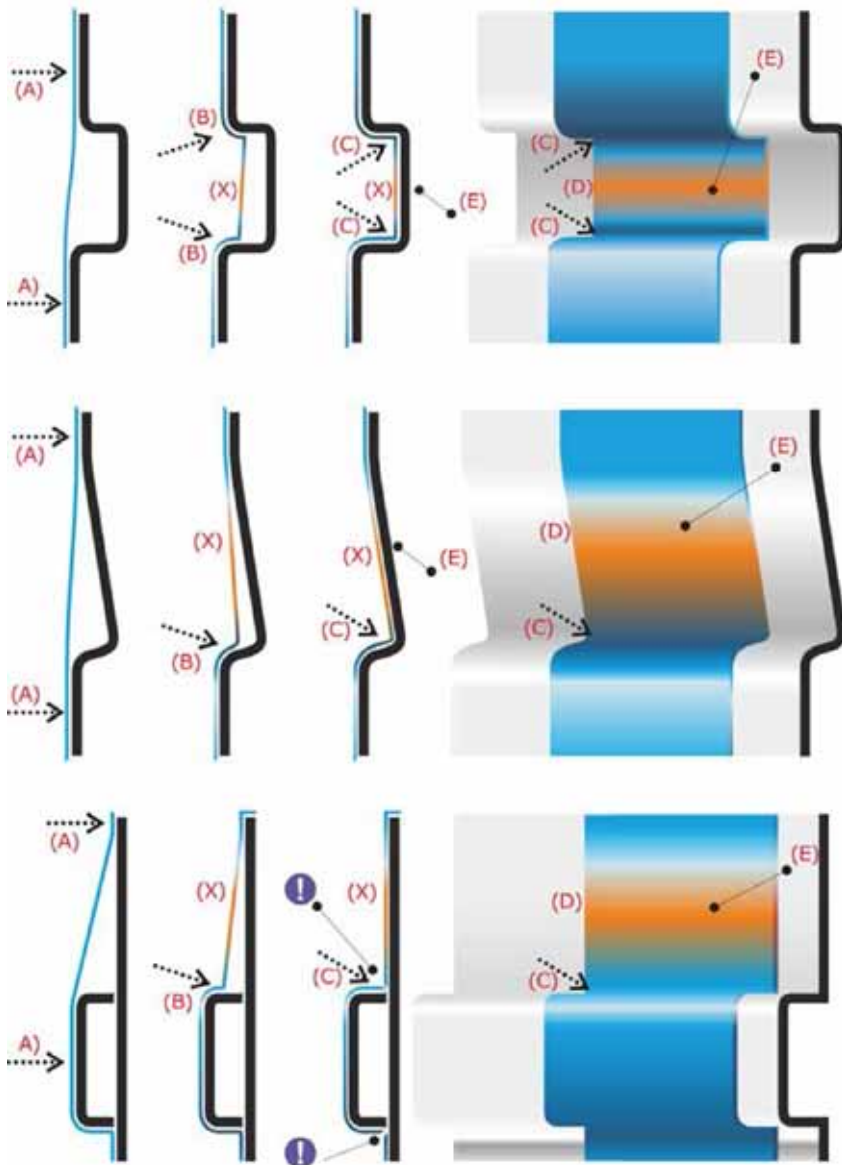


FIG. 1:

The film should be applied on the flat surface of the substrate initially (Area A).

FIG. 2:

Begin applying the film into the channel area by heating the area labeled (X) and start installation from the edges (B) and moving inwards towards the channel. This will ensure that the film will stretch in a different area (X) and cause less stress on the vinyl.

FIG. 3: Continue applying pressure at the edges (Area C) and working inward until the vinyl makes contact with the flat area of the channel.

FIG. 4: The benefit of installing the vinyl into the channel using the above recommended method is that the stress is minimized in the corners of the channel (Area C) and contained to the flat portion (Area E).

Finishing: To ensure the graphic remains in the channel apply post heat (recommended temperature: 95°C to 105°C.) after the installation is complete.

- > Where to apply pressure.
- (X) Where to apply heat.
- Where the stress points will be.

Please contact your local Fujifilm partner for further information

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