

WRAPCAST CW 3D



Description

Cast film 3D "Carbon-effect" for long duration to completely cover flat and very curved surfaces. Structured glue with small channels, which allows the air to escape. Please note this product should be considered as short term when applied to light coloured bodywork.

Colours: see color card.

Technical Information

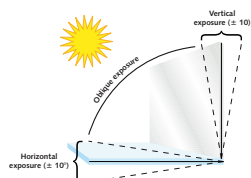
Film:	Cast 3D multi-layer P.V.C.	
Film Thickness (without adhesive):	Carbon 140+/-10 Leather from 160 to 180+/-10 Brushed 120+/-10	CW/967-HS 170+/-15 Nubuck 140+/-15 Jungle 140+/-10.
Liner:	PET-Liner 1 side siliconised "Air Free FT System" (Macro Channel Technology). CW/87.0-HS PET-Liner 1 side siliconised "Air Free FTX System" (Micro Channel Technology).	
Release:	FT System 70 +/- 20 cN/20mm. FTX System 4+/-3 Nm.	
Adhesive:	Ultra-permanent acrylic high cohesion.(Pigmented where necessary).	
Grammage:	25 +/- 5 gsm.	
Peel 180° after 20 min.:	min. 600 N/m on steel at 20°C (Op. Istr. n°7)	
Peel 180° after 72 h.:	min. 850 N/m on steel at 20°C (Op. Istr. n°7)	
Application:	dry method	
Application temperature:	Suggested between 15 and 28°C	
Shrinkage:	< 0,2 mm after 48 h. at 70°C on steel (Op. Istr. n° 8)	
Temperature resistance:	from -50°C to +90°C adhered to steel no variation (Op. Istr. n° 15)	
Seawater resistance:	adhered to steel no variation after 100 h. at 20°C (Op. Istr. n° 14)	

Life expectation*:

6 years all colours, 5 years metal colours, when vinyl is exposed vertically (+/-10° from vertical) in middle European climate conditions, not shaped and applied correctly on a flat surface.

Reasons for a significant reduced performance level:

- Vinyl exposed horizontally/oblique (more than +/-10° from vertical): reduction up to a third of the data described above.
- Southern-European climate conditions, exposition of the vinyl to long periods of sunlight,



areas with high temperatures, high altitudes or highly polluted and/or an inadequate maintenance of the vinyl: further reduction of more than half of the date described above.

General Data

Storage: 1 year, film must be kept warehoused at room temperature (20°C / 50% R.H.) Suspended horizontally or placed in a vertically upright position in polythene bag.

During the storage, gloss vinyl could become matt. This phenomenon, due to the pressure of the rolling up of the material, could worsen when close to the cardboard core and, is more frequent when the storage temperature is above 25°C and/or when the vinyl is particularly glossy and soft. It is possible to return the gloss of the vinyl by heating the surface with an industrial heat gun.

Application: the film is conceived for a highly professional use.

The staff that apply the vinyl must possess the requirements and the training necessary.

Before applying the film always test the compatibility between the self-adhesive vinyl and the surface of the decoration and in particular verify:

- 1- the stability of the paint on the surface to be decorated. Application on coloured surfaces with the original paint from the manufacturer (OEM) is recommended.
We recommend against the application of film on damaged parts, for example, repaired and re-painted.
- 2- the presence of oil, wax and other substrates, that could compromise the adhesion of the film and cause it to detach in the future.
Make a general cleaning of the surface with APA EASY CLEANER. Re-clean the corners, edges, slits, rivets and all the areas where the vinyl undergoes an increased shaping with APA CLEANER XT.

Before using APA EASY CLEANER and CLEANER XT always test the compatibility of the products on a corner of the surface which has to be cleaned.

It is recommended to apply the film in a room with a temperature between 15 and 28°C. Apply the vinyl only using the dry-method. Do not use water!

3D films, as a result of their particular composition, are more fragile in the elongation phase, due to the presence of some breaking points introduced by the texture. Therefore always pay attention to curves and profiles during the conformation phase.

3D shaped films, if stretched and conformed in the application stage, may present a texture distortion as wide as the deformation of the film.

This vinyl is not compatible with:

- porous surfaces in general either made of plastic or of other material
 - surfaces with small superficial tensions, silicone, rubber, etc
 - painted surfaces with poor adhesion of the paint to the surface underneath
 - dirty surfaces such as walls and non-smooth surfaces
 - flexible surfaces such as banners, truck curtains or textiles
 - surfaces that give out gas (out-gassing)
 - gasoline vapors or spills
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Cleaning the vinyl: use water with soft cloths and non-aggressive detergents. Do not use rough sponges and cloths, abrasive creams or very strong solvents. Cleaning with unsuitable products and tools could cause a premature deterioration of the vinyl.

To remove ground in dirt, we advise the use of the quick cleaner APA CLEANER FILM and non-pressurised water. We recommend against the use of wax or polish products.

Vinyl with a matt finish or 3D structure, due to the higher porosity, tends to detach in more dust and dirt, thus needs more frequent washing.

High-pressure washers can be used to clean the 3D vinyl. However, if high-pressure washing is performed, then you must never aim the water jet on the edges of the film, as the water power might create over lifting and detachments. To prevent distortion and over lifting to the vinyl, the water nozzle must always be kept perpendicular and never oblique to the surface that needs to be cleaned. The film with a gloss finish, if treated badly, could go matt and stripe beyond remedy.

Maintenance: the surface of the vinyl is delicate and therefore should be treated with care. Avoid rubbing against objects that could cause scratches or ripping of the vinyl beyond repair. Vinyl with a matt surface or 3D structure without anti-scratch treatment, are particularly vulnerable to superficial marks and abrasions.

An extended exposition to solar rays and to atmospheric agents could provoke a premature aging of the film, especially for the parts exposed horizontally or to the south. Therefore, we advise to protect, as much as possible, the decorated surface from sunlight and atmospheric agents. For a good maintenance of the vinyl regular cleaning is recommended. To maintain the original finish of the vinyls with a matt surface, 3D and/or clear colours it is essential not to allow dirt to accumulate.

Removal: during the removal process it is important to apply heat with a heat gun to the self-adhesive vinyl, up to a temperature of 50°C. An in-correct temperature in this phase may cause parts of the paint to detach. In regards to this, pay extra attention to painted plastic parts and areas of the bodywork that have been repainted.

In some cases there has been a colour change with some light coloured paints after the removal of the vinyl. This is due to the reaction generated by the paint on which the vinyl is applied, for which A.P.A. SpA can not be held responsible. It is therefore the responsibility of the customer to determine the suitability of the self-adhesive vinyl with the surface that it is to be applied to. The operations of the vinyl removal are conditioned by many factors, such as the time passed from the application, exposure of the decoration either outdoors or indoors, type of surface, temperature of the room and of the surface, etc. Therefore it is difficult to quantify and determine the speed and execution time of the removal by A.P.A. S.p.A.

Should glue traces remain on the surface, these can easily be removed with the ready-for-use liquid APA REMOVER. Before using APA REMOVER always test the compatibility of the product on a corner of the surface which has to be cleaned.

The company APA cannot be held responsible of any damage caused during the removal phase and/or damages of the surface upon which the film has been applied.

General Indications*: the values and the data given are based on tests we believe to be reliable and are typical values intended only as a source of information, and do not constitute a guarantee. All duration tests were done on material non-shaped and applied to a flat surface.

Purchasers must independently determine, before use, the suitability of the material for their own specific use and under their own operating conditions with the aim to determine if the APA product is suited for the specific goal and is furthermore suited for the use and the pre-selected application-method.

APA branded products are manufactured under careful quality control and are warranted against defect in material and workmanship.

A.P.A. SpA cannot be held responsibility for any damages other than the substitution of the goods.

APA guarantees to maintain the interval of the variability of the colours of its products in the best possible way, using instrumental and visual checks.

- To avoid colour variation, all the parts of the vinyl applied have to belong to the same production batch. It is also the case for decorations that are required for a long duration of time, updating or improvements of the decoration. Therefore, it is recommended to ask beforehand for the required material, belonging to the same production batch.
- The feature of a metal colour depends of the angle of vision of the products. For a uniform colour all parts must be applied maintaining the same direction of orientation.

No salesman, representative, agent or distributor has authority to supply data different from those reported in this Technical Data Sheet. To make improvements all products may be modified without prior notice.

For a safe use of the self-adhesive materials by A.P.A. it is recommended to read the dedicated safety information.

For a safe use of the cleaners mentioned in this data sheet it is recommended to read the dedicated safety sheets.
