



## OMEGA-SKINZ™ wrapping film

OMEGA-SKINZ™ wrapping film is a high quality cast PVC wrap film. This soft flexible PVC film has special properties, as described below, but one of its most important assets is the possibility to have almost any colour manufactured as desired and, if required, with the colour depth of exclusive car paints.

OMEGA-SKINZ™ wrapping film is at the forefront of the car wrap industry in terms of appearance, image and colour trends. OMEGA-SKINZ™ wrapping film is extremely easy to deform and can be used not only for automotive, but also for industrial and nautical applications.

### CHARACTERISTICS (shortened; see technical data sheet for more detailed information):

Roll width:	152,5cm
Roll length:	20m
Elongation:	90%*
Thickness:	100-140 micron (depending on colour)#
Adhesive:	OS-ICS-21 acrylic solvent with invisible air channels and repositionable.
Construction:	MLS system (2-pass and 3-pass cast)

### EXTRA INFORMATION

Resistant to stone chips for driving vehicles in case of normal use. In case of extreme use, such as at high speeds in, for example, car racing or road races, SOTT recommends laminating the above film with a protective film.

OS-ICS-21 adhesive (repositionable, also after being pressed firmly. The final adhesion is reached only after a couple of hours). Removable without any residues of glue staying behind on the surface.

Can be applied in indents\*\*.

Construction: MLS system (several layers processed into each other, see illustration)

Colour appearance as car paint.

Deep gloss and colour (GLOSS): especially over contours and on curved surfaces.

Deep colour glow (MATT): especially over contours and on curved surfaces.

Film can be corrected, deformed and repaired, without the adhesive and/or film structure changing##.

\* Read: an elongation of 90% more in comparison to the original size.

# As colour depths and colour structure can be a complex matter, a thicker type of vinyl was chosen in some cases, which leads to the desired end result. Besides, in a lot of cases the film is more stable and doesn't tear as easily during application.

\*\* if the correct mounting technique is used. An installer approved by OMEGA-SKINZ can give a 100% application warranty.

## some color can have a lower elongation capacity.



## DETAILS

OMEGA-SKINZ™ wrapping film give every intaller the freedom and possibility to guarantee an easy and perfect installation without any compromises down to the smallest detail. This high quality film has numerous special characteristics, as a result of which car wrappers consider it to be one of the best car wrap films in the world. Please find below the exceptional features:

### **Correcting**

You can keep pressing and removing the film without changing or activating the adhesive structure. Even if the film is extremely stretched, you can heat it and the film will go back to its original form, ready to be mounted again. Even in that case, the adhesive layer will stay completely intact.

### **Pressure stripes and squeegee stripes**

Unlike many other films, you will see hardly any pressure stripes during application and when stretching the film. Stripes in matte films will disappear when they are heated.

### **Colour, structure and sharp folds**

The colour of the film often changes when stretched. This is caused by the pigmentation of the PVC during production. OMEGA-SKINZ™ wrapping film takes this into account and makes sure this is kept to a minimum or even completely avoided. In this way colours remain intact, even when they are stretched extremely in deep indents.

### **Resistant under the following conditions**

#### **1) Indents (if applied in the right way)**

If the film is applied in the right way, it will stay perfect in the most common indents, without coming loose. In order to avoid any risk, we advise application in several parts, to avoid film tensions.

#### **2) Petrol, diesel and midly aggressive fluids**

Edges at petrol caps and tanks are no problem for OMEGA-SKINZ™ wrapping film. The film won't curl when in contact with these fluids. Simply make sure that there is no tension on the edges and that the adhesive layer is firmly pressed in these areas.

#### **3) High pressure cleaners and steam cleaners**

Film edges won't curl as a result of the above-mentioned cleaners. We do, however, advise you to press the film edges firmly. Also see the heading IMPORTANT and read the guidelines in our installation documents. In order to be completely sure and avoid all risk (especially in case of applications, where the edges are put out to extreme conditions, such as friction, or where they are continuously subjected to water jets and temperature fluctuations, we advise to use SOTT SealTape 400-005).

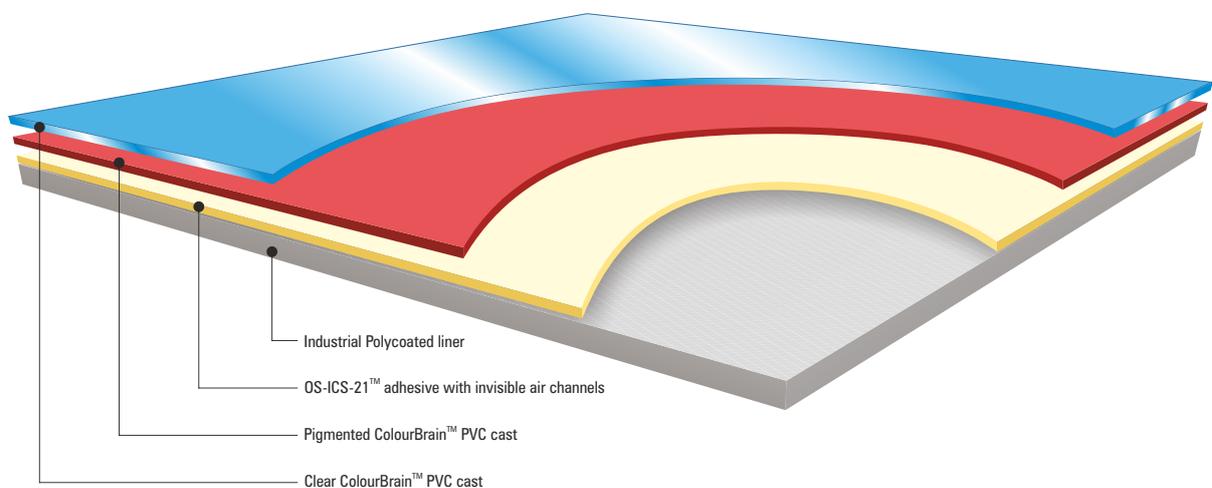
## CONSTRUCTION

OMEGA-SKINZ™ wrapping film is built up in a different way than many conventional films. OMEGA-SKINZ consists of several layers that absorb the film tensions during stretching and deforming. The upper layer is a transparent PVC film, which gives the film extra colour depth. OMEGA-SKINZ wrapping film is cast as a 2-pass or 3-pass system, eventually turning the various layers into one homogeneous layer.

The result is a strong stable film during application, which is extremely soft and flexible when heated with a heat gun or infrared lamp. Both characteristics are ideal for large surfaces as well as complex shapes, such as bumpers, spoilers and door handles.

## OMEGA-SKINZ™ wrapping film series

ILLUSTRATION: 2-pass casting



## APPLICATIONS

OMEGA-SKINZ wrapping film can be used in the following markets:

### Automotive

- Car wrapping
- Fleet marking
- Accent designing
- Striping

### Signmaking

- Belettering
- Fleetmarking
- Digital Printing (UV en Latex)

### Industrial/ OEM

- Excavators, cranes, etc.
- Containers
- Trains, wagons
- Refrigeration equipment
- Kitchens, furniture, etc.
- Small and large machines

### Nautica\*\*

- Boat wrapping
- Yacht wrapping
- Jetskis

*Attention: Surface always need to be smooth and can be made of glass or painted metal.*



## LIFE SPAN

Thanks to the way the OMEGA-SKINZ™ wrapping film is constructed, plus the added high quality ingredients, we came up with a PVC car wrap film with a long life span. However, the life span is relative, as the installer, user and application can vary.

In location A the film may be exposed to petrol vapours and gasses, but will also be under a canopy, while in location B the same film will be exposed to salty water or extreme heat. We assume a daily average use, where the film in question is subject to: Seawater, sun, petrol/diesel, petrol/diesel vapours, degreasers and cleaning agents, high pressure cleaners, steam cleaners.

The life span that is indicated below is based upon:

- Real results of wraps which are applied on vehicles all over the world in past years.
- Real results during the life span of a vehicle (the time that the vehicle is owned by the person who had it wrapped).

Test areas: Northern Europe, Western Europe, Eastern Europe, Southern Europe, Africa, Qatar, Dubai, Egypt, Malaysia, Australia, China, Japan, Canada, Brasil, Northern America, Canada, Ireland, Great-Brittain.

Life expectancy, based on tests and experience:

Applied to cars and motorcycles*:	Sides/vertically installed <sup>2</sup>			Roofs, hoods etc./horizontal <sup>3</sup>		
COLOR TYPE	ZONE 1	ZONE 2	ZONE 3	ZONE 1	ZONE 2	ZONE 3
<b>Opaque (matt/gloss)</b>	5 years	5 years	4 years	2 years	2 years	1 year
<b>Metallic (matt/gloss)</b>	4 years	4 years	4 years	2 years	2 years	1 year
<b>Pearlescent (matt/gloss)</b>	4 years	4 years	4 years	2 years	2 years	1 year

\*Applied according to SOTT recommendations. This includes all vehicles, such as trucks, trains, scooters, etc.

Applied to boats and jet skis:	Sides/vertically installed <sup>2</sup>			Roofs, hoods etc./horizontal <sup>3</sup>		
COLOR TYPE	ZONE 1	ZONE 2	ZONE 3	ZONE 1	ZONE 2	ZONE 3
Installation above the waterline #						
<b>Opaque (matt/gloss)</b>	2 years	2 years	2 years	2 years	1 year	1 year
<b>Metallic (matt/gloss)</b>	2 years	2 years	2 years	2 years	1 year	1 year
<b>Pearlescent (matt/gloss)</b>	2 years	2 years	2 years	2 years	1 year	1 year
Installation below waterline#						
<b>Opaque (matt/gloss)</b>	1 year	1 year	1 year	1 year	1 year	1 year
<b>Metallic (matt/gloss)</b>	1 year	1 year	1 year	1 year	1 year	1 year
<b>Pearlescent (matt/gloss)</b>	1 year	1 year	1 year	1 year	1 year	1 year

#Applied in accordance with the OMEGA-SKINZ recommendations. Edges and seams need to be sealed. Read the special instruction document OS-GN-21 for installation on nautical objects.

The above-mentioned life span refers to film coming loose. Not to flaking, delaminating, scratches and damage resulting from physical friction, bumping and sanding.

<sup>2</sup> if correctly mounted in accordance with the OMEGA-SKINZ guidelines.

<sup>3</sup> if no wax or additional protection means are applied, other than SOTT 600-CP45, exclusively on glossy films. SOTT guidelines need to be taken into account.



## IMPROPER USE & EXPECTATIONS

OMEGA-SKINZ™ wrapping film is especially intended for the professional markets and only installers and processors can claim the warranty conditions as explained in this document. If OMEGA-SKINZ wrapping film is used for another application than the criteria mentioned here, nothing can be warranted. In no case will OMEGA-SKINZ be liable for any damage, direct or indirect, resulting from the delivered product.

OMEGA-SKINZ' warranties don't apply on stainless steel substrates.

OMEGA-SKINZ' warranty only covers the replacement of the delivered material and no personnel costs, additional costs and/or indirect costs. OMEGA-SKINZ will look at each case and calamity individually and assess it.

ZONE 1	ZONE 2	ZONE 3
<p>Benelux</p> <p>Germany</p> <p>Eastern Europe</p> <p>Great Britain</p> <p>North America <i>(except states listed in Zone 3)</i></p> <p>Austria</p> <p>Scandinavia</p> <p>Switzerland</p> <p>South America <i>(except countries listed in Zone 3)</i></p>	<p>Australia <i>(except countries listed in Zone 3)</i></p> <p>Asian countries</p> <p>China</p> <p>France</p> <p>Greece</p> <p>India</p> <p>Italy</p> <p>Korea</p> <p>Mediterranean Islands</p> <p>New Zealand</p> <p>Spain</p> <p>Turkey</p> <p>Korea</p> <p>South Africa <i>(all coastal regions)</i></p>	<p>Australia ie <i>(Western Australia, all northern territories, Queensland)</i></p> <p>Caribbean islands</p> <p>Mexico</p> <p>Middle East</p> <p>North Africa <i>(Including Sahara)</i></p> <p>North America <i>(FL, AZ, NV, NM, JX, CA, UT desert ranges)</i></p> <p>Northern Argentina</p> <p>Northern Colombia</p> <p>Northern Venezuela</p> <p>Paraguay</p> <p>Persian Gulf</p> <p>Uruguay</p> <p>South Africa <i>(Central areas)</i></p> <p>Areas higher than 1500m above sea level</p>

Vertical applications are understood to mean: applications placed at an angle of 90°, with a possible deviation of 10°. A deviation of more than 10° will be considered as a horizontal application.

The life span of OMEGA-SKINZ™ wrapping film has been tested thoroughly in various weather conditions in countries in Europe, but also in Florida, Arizona and California. Some colours can have a different life span and show some discoloration. This is inherent to the natural characteristics of the (colour) pigments in the metallic and pearlescent parts. Horizontal exposure may shorten the life span.

OMEGA-SKINZ™ wrapping film can be removed cleanly. This means: removable without leaving behind any traces of glue.

We recommend you to use only SOTT's special tools for the most optimal removal. A clean removal is understood to mean: no more adhesive residues should remain on the substrate than 25% of the entire surface.

*Given information has been obtained to the best of our knowledge through experience and tests. No rights can be granted to this.*



## IMPORTANT

### Adhesive

OMEGA-SKINZ™ wrapping film comes with a special adhesive layer named OS-ICS-21. The structure of the air channels is invisible. Some attention is needed. OMEGA-SKINZ™ wrapping film has very small air channels. The installer has to squeegee carefully and with the right amount of pressure. Car wrappers are used to press the car wrap film gently. But that is not the way to process the OMEGA SKINZ™ wrapping film.

Incorrect pressure can cause small air bubbles and -stripes. Don't worry. They will disappear again. But you can prevent this immediately. Make sure you use a medium hard squeegee and a thin felt buffer. The best ones are: SOTT Velours 500-045 or SOTT WrapEdge 500-037.

### Prevent scratches

SCRATCHES can occur in the glossy films when using the wrong buffers. Many buffers are too hard or contain sharp tissues. To do this, use the above-mentioned buffers. If you definitely don't want scratches: wet the SOTT WrapEdge 500-037 (this one is from natural Alcantara) with water and a little soap.

### Edges and Indents

You need to press the film firmly at the edges, so that the adhesive layer can start to do its job after a couple of hours. Simply press the edges firmly when heating it again (post-heating). Use a heat gun or the 400-BB2235 torch to do so, and heat the film between 100-105 degrees Celsius. Then press the film until it has cooled down to about 40-45 degrees Celsius.

## CLEANING & DEGREASING

Proper cleaning and degreasing of the surface is crucial for a perfect wrap. Below we follow the steps to have the vehicle ready before you assemble:

### 1) Street dirt and tectyl or tar

Make sure that the car is well washed from street dirt first. There should be no wax or paraffine on the surface when you are going to wrap. Tectyl, tar or wax can be removed with 600-T800 SOTT Industrial Remover. Hard residues of tar or stubborn stains can be removed with the following tools, without damaging the paint: 300-008 LilGripper, 300-163 3M ScotchBrite, 300-021 SOTT UltraClean cloth.

### 2) Degreasing the surface

Use 600-SC02 SOTT SurfaceCleaner-II for overall degreasing. Use the Contour squeegees (Yellow or Green 150-031 or 150-032) wrapped with the UltraClean white cleaning cloth (300-021) to clean all small seams and cracks between the taillights, bumpers and door rubbers. Rub dry well.

Dirt and dust can come out of seams and crevices during application. You can prevent this by treating it in advance.

1) Use compressed air to blow the seams clean. Also blow between the door, window and roof rubbers. When you blow the bumper clean, knock your fist against the mounted body parts so that dirt can come out between the seams.

2) Use 5cm wide crepetape SOTT 600-645 to tape the grill off at the edges. During your film assembly, loose particles of dust and dirt can still come out of and between the grill and get under your film. The crepetape prevents this.

You can also use the same tape to mask plastic headlights, turn signals and chrome-plated parts. It may happen that your film attaches extra strongly to these objects during your assembly. Masking in advance is then wise.



## CLEANING & DEGREASING (vervolg)

Adhesion can be a problem on modern cars. This has to do with today's car paints. They are mainly water based and contain silanes#. The adhesion on this type of lacquer is less and is therefore especially at the edges and deep-lying indents, where films are mounted under tension, a risk factor. Mounting in the right way in accordance with SOTT's guidelines is therefore necessary.

The adhesion can be improved by using a neutralizer or primer, which will optimize the adhesion at this place (the indent or edge). SOTT's AA-1400 Adhesive Activator does this. This builds 'bridge' between the silicone compounds and the film.

Simply apply some primer to a clean cloth and apply a little on the relevant surface. Wait 15 minutes for a white haze to form.

Mount your film over this and heat this spot as indicated in guideline SOTT-IG-03. You can simply brush off remainders of this primer with SOTT SurfaceCleaner-II. Important: the Primer does not affect the car paint. Wet application is not possible over the AA-1400 Adhesive Activator.

*#Silane is a silicon compound. The silanes used contain silicone molecules, which in the car paint ensures a better bond and spread of the paint. But this is not beneficiary for the adhesion of films.*

## POST-HEATING / POST-PROCESSING

When your application is finished, you must re-heat the places where the film is stretched, critical places and all edges (post-heating), so that all tension is removed from the film. The film must be 're-cast', as it were, in its new form.

Simply press the edges extra during heating (post-heating). To do this, use a heat gun or the 400-BB2235 torch and heat the film between 100-105 degrees Celsius. Then press the film until it has cooled to about 40-45 degrees.

We advise you to always shift the film tension. As a result, the film can never come off. Follow an OMEGA-SKINZ™ recognized wrap training for this technique. Your supplier can help you further. You will also find a list of recognized trainers on the website.

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