OMEGA-SKINZ™ SX wrapping film

OMEGA-SKINZ™ SX 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 that almost any colour can be manufactured as desired and, if required, with the colour depth of exclusive car paints.

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

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

Roll width:	152.5 cm
Roll length:	20 m
Elongation:	90%*
Thickness:	100-140 micron (depending on colour)#
Adhesive:	UM-Warp6™ solvent-based acrylic, repositionable, with invisible air channels
Construction:	MLS system (2-pass and 3-pass cast)

EXTRA INFORMATION

Resistant to stone chips under normal driving conditions. For extreme use, such as high speeds in motor racing or road races, SOTT Automotive recommends laminating the film with a protective film.

UM-Warp6™ adhesive has a very low initial tack. Adhesion increases once the film is warmed to 45 to 50 °C, yet the film remains repositionable, even after firm pressure. Final adhesion is reached after 20 to 30 minutes. The film can be removed cleanly, although up to 25% adhesive residue may remain on the surface.

Can be applied in recesses**.

Construction: MLS system (several layers cast into one, see illustration).

Colour appearance like 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.

The film can be corrected, reshaped and repaired without changing the adhesive or film structure##.

** The film can be stretched up to 90% beyond its original size.*

 # As colour depth and colour structure can be complex, a thicker vinyl is used for some colours to achieve the desired result. In many cases, this also makes the film more stable and less likely to tear during application.

*** If the correct application technique is used. An OMEGA-SKINZ approved installer can provide a 100% application warranty.*

Some colours may have a lower elongation capacity.

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DETAILS

OMEGA-SKINZ™ SX wrapping film gives every installer the freedom to achieve an easy and perfect installation without compromise, down to the smallest detail. This high-quality film has numerous special characteristics, which is why car wrappers consider it one of the best car wrap films in the world. The exceptional features are listed below:

Correcting

You can press down and lift the film repeatedly without changing or activating the adhesive structure. Even if the film is overstretched, you can heat it and it will return to its original shape, ready to be applied again. Even then, the adhesive layer stays completely intact.

Pressure marks and squeegee lines

Unlike many other films, you will see hardly any pressure marks during application or when stretching the film. Marks in matt films will disappear when 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™ SX wrapping film takes this into account and keeps this effect to a minimum or avoids it completely. As a result, colours remain intact, even when heavily stretched in deep recesses.

Resistant under the following conditions

1) Recesses (if applied correctly)

If the film is applied correctly, it will stay perfect in the most common recesses without lifting. To avoid any risk, we recommend applying the film in several sections to prevent tension.

2) Petrol, diesel and mildly aggressive fluids

Edges around fuel filler caps and tanks are no problem for OMEGA-SKINZ™ SX wrapping film. The film will not 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 down in these areas.

3) High-pressure cleaners and steam cleaners

Film edges will not curl as a result of these cleaners. We do, however, advise you to press the film edges down firmly. Also see the heading IMPORTANT and read the guidelines in our installation documents. To be completely sure and avoid all risk, we recommend using SOTT SealTape 400-005, especially in applications where the edges are exposed to extreme conditions such as friction, or are continuously subjected to water jets and temperature fluctuations.

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CONSTRUCTION

OMEGA-SKINZ™ SX wrapping film is constructed differently from many conventional films. OMEGA-SKINZ™ SX consists of several layers that absorb tension in the film during stretching and deforming. The top layer is a transparent PVC film, which gives the film extra colour depth. OMEGA-SKINZ™ SX 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 becomes 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

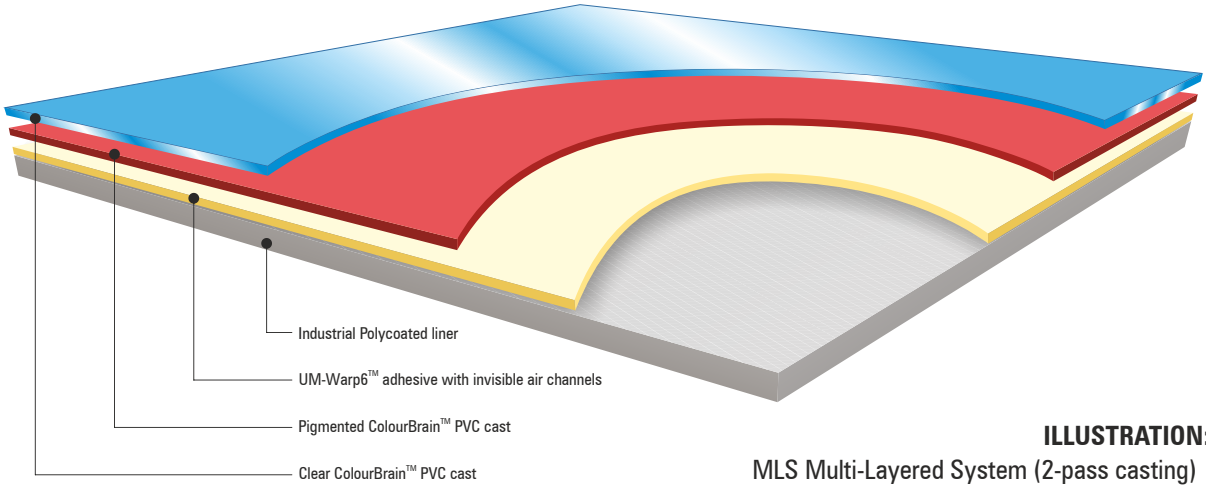


ILLUSTRATION:
MLS Multi-Layered System (2-pass casting)

APPLICATIONS

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

Automotive
- Car wrapping
- Fleet marking
- Accent design
- Striping

Signmaking
- Lettering
- Signage
- Digital printing (UV and latex)

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

Marine
- Boat wrapping
- Yacht wrapping
- Jet skis

Note: the surface must always be smooth and can be glass or painted metal.

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LIFESPAN

Thanks to the construction of OMEGA-SKINZ™ SX wrapping film and the high-quality ingredients used, we have developed a PVC car wrap film with a long lifespan. However, lifespan is relative, as the installer, the user and the application can vary.

In location A, the film may be exposed to petrol vapours and gases but be protected by a canopy, while in location B, the same film may be exposed to salt water or extreme heat. We assume average daily use, in which the film is exposed to seawater, sun, petrol and diesel, petrol and diesel vapours, degreasers and cleaning agents, high-pressure cleaners and steam cleaners.

The lifespan indicated below is based on:

- Real results of wraps applied to vehicles all over the world in recent years.
- Real results over the lifespan of a vehicle (the period in which 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, Brazil, North America, Ireland, United Kingdom.

Black and white films are not included in the table below. As they contain little pigment, they have the longest lifespan: up to 6 years when applied vertically in Zone 1.

Life expectancy, based on tests and experience:

Applied to cars and motorcycles*:	**Sides/vertically installed[2]**			**Roofs, bonnets etc./horizontal[3]**		
COLOUR TYPE	ZONE 1	ZONE 2	ZONE 3	ZONE 1	ZONE 2	ZONE 3
Opaque (matt/gloss)	5 years	5 years	4 years	2 years	2 years	1 year
Metallic (matt/gloss)	4 years	4 years	4 years	2 years	2 years	1 year
Pearlescent (matt/gloss)	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[2]**			**Roofs, bonnets etc./horizontal[3]**		
COLOUR TYPE	ZONE 1	ZONE 2	ZONE 3	ZONE 1	ZONE 2	ZONE 3
	Installation above the waterline#					
Opaque (matt/gloss)	2 years	2 years	2 years	2 years	1 year	1 year
Metallic (matt/gloss)	2 years	2 years	2 years	2 years	1 year	1 year
Pearlescent (matt/gloss)	2 years	2 years	2 years	2 years	1 year	1 year
	Installation below the waterline#					
Opaque (matt/gloss)	1 year	1 year	1 year	1 year	1 year	1 year
Metallic (matt/gloss)	1 year	1 year	1 year	1 year	1 year	1 year
Pearlescent (matt/gloss)	1 year	1 year	1 year	1 year	1 year	1 year

#Applied in accordance with the OMEGA-SKINZ recommendations. Edges and seams must be sealed.

The above-mentioned lifespan refers to the film coming loose and to discolouration caused by UV exposure. It does not cover flaking, delamination, scratches or damage resulting from physical friction, impact or abrasion.

[2] If correctly installed in accordance with the OMEGA-SKINZ guidelines.

[3] If no wax or other protective products are applied, other than SOTT 600-CP45 (exclusively on gloss films). SOTT guidelines must be followed.

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IMPROPER USE & EXPECTATIONS

OMEGA-SKINZ™ SX wrapping film is intended specifically for professional markets, and only professional installers and converters can claim the warranty conditions explained in this document. If OMEGA-SKINZ™ SX wrapping film is used for any application other than those described here, no warranty can be given. Under no circumstances will OMEGA-SKINZ be liable for any damage, direct or indirect, resulting from the delivered product.

OMEGA-SKINZ warranties do not apply to stainless steel substrates.

The OMEGA-SKINZ warranty only covers replacement of the delivered material, and not labour costs, additional costs or indirect costs. OMEGA-SKINZ will assess each case individually.

ZONE 1	ZONE 2	ZONE 3
Benelux	Australia *(except countries listed in Zone 3)*	Australia *(Western Australia, Northern Territory, Queensland)*
Germany	Asian countries	Caribbean islands
Eastern Europe	China	Mexico
United Kingdom	France	Middle East
North America *(except states listed in Zone 3)*	Greece	North Africa
Austria	India	(including the Sahara)
Scandinavia	Italy	North America *(FL, AZ, NV, NM, TX, CA, UT desert ranges)*
Switzerland	Korea	Northern Argentina
South America *(except countries listed in Zone 3)*	Mediterranean Islands	Northern Colombia
	New Zealand	Northern Venezuela
	Spain	Paraguay
	Turkey	Persian Gulf
	South Africa *(all coastal regions)*	Uruguay
		South Africa *(Central areas)*
		Areas higher than 1,500 m above sea level

Vertical applications are understood to mean applications at an angle of 90°, with a maximum deviation of 10°. A deviation of more than 10° is considered a horizontal application.

The lifespan of OMEGA-SKINZ™ SX wrapping film has been thoroughly tested in various weather conditions in European countries, as well as in Florida, Arizona and California. Some colours may have a different lifespan and show some discolouration. This is inherent to the natural characteristics of the colour pigments in metallic and pearlescent films. Horizontal exposure may shorten the lifespan.

OMEGA-SKINZ™ SX wrapping film can be removed cleanly, with minimal adhesive residue. We recommend using only SOTT's special tools for optimal removal. Clean removal is understood to mean that no more than 25% of the total surface shows adhesive residue.

The information given is based on our experience and tests, to the best of our knowledge. No rights can be derived from it.

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IMPORTANT

Adhesive

OMEGA-SKINZ™ SX wrapping film comes with a special adhesive layer named UM-Warp6™. The structure of the air channels is invisible. This requires some attention. OMEGA-SKINZ™ SX 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 applying wrap film with light pressure, but that is not the right way to apply OMEGA-SKINZ™ SX wrapping film.

Incorrect pressure can cause small air bubbles or streaks. Don't worry, they will disappear. But you can prevent this straight away. Use a medium-hard squeegee and a thin felt buffer. The best are SOTT Velours 500-045 and SOTT WrapEdge 500-037.

Preventing scratches

SCRATCHES can occur on gloss films when the wrong buffers are used. Many buffers are too hard or contain abrasive fibres. Use the buffers mentioned above instead. If you want to be sure of avoiding scratches, wet the SOTT WrapEdge 500-037 (made of natural Alcantara) with water and a little soap.

Edges and Recesses

Press the film firmly at the edges so that the adhesive can do its job. Final adhesion is reached after 20 to 30 minutes. Press the edges firmly again while post-heating them. Use a heat gun or the 400-BB2235 torch to heat the film to 100 to 105 °C. The ideal temperature depends on the construction of the film and the amount of tension. Films cast in 3 passes are stronger and can be heated to 105 °C. Films cast in 2 passes are more sensitive to heat, so stay closer to 100 °C to avoid burning the film. Then keep pressing until the film has cooled down to approximately 40 to 45 °C.

Avoid tension at edges and in recesses wherever possible. For edges, we recommend the following: do not apply the last 3 to 4 cm of film before the edge yet, and warm this section slightly. The film will release all tension and return to its relaxed state. Let it cool down, then apply the film cold onto and over the edge to prevent adhesive lines. Because the tension has been released, the edge will not lift or curl back. In deep recesses, it is best to shift the tension to a flat area. This technique is taught in wrap training courses.

CLEANING & DEGREASING

Proper cleaning and degreasing of the surface is crucial for a perfect wrap. Follow the steps below to prepare the vehicle before application:

1) Road dirt, Tectyl and tar

First make sure the car has been thoroughly washed to remove road dirt. There must be no wax or paraffin on the surface when you start wrapping. Tectyl, tar and wax can be removed with **OMEGA X-Treme Degreaser OS-C-012-1**. Hard tar residues or stubborn stains can be removed with the following tools without damaging the paint: 300-008 LilGripper, 300-163 3M Scotch-Brite and 300-021 SOTT UltraClean cloth.

2) Degreasing the surface

Use **OMEGA SurfaceCleaner OS-C-010-1** for overall degreasing. Use the Contour squeegees (Yellow or Green, 150-031 or 150-032) wrapped in the white UltraClean cleaning cloth (300-021) to clean all small seams and gaps around the taillights, bumpers and door rubbers. Wipe thoroughly dry.

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

1) Use compressed air to blow the seams clean. Also blow between the door, window and roof rubbers. When blowing the bumper clean, tap the fitted body parts with your fist so that dirt can come out of the seams.

2) Use 5 cm wide SOTT 600-645 masking tape to mask off the edges of the grille. During application, loose particles of dust and dirt can still come out of the grille and get under your film. The masking tape prevents this.

You can also use the same tape to mask plastic headlights, indicators and chrome-plated parts. Your film may adhere very strongly to these parts during application, so masking them in advance is advisable.

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CLEANING & DEGREASING (continued)

Adhesion can be a problem on modern cars. This is due to today's car paints, which are mainly water-based and contain silanes#. Adhesion to this type of paint is lower, which makes edges and deep recesses, where film is applied under tension, a particular risk. Installing the film correctly in accordance with SOTT guidelines is therefore essential.

Adhesion can be improved by using a neutraliser or primer, which optimises adhesion at that specific spot (the recess or edge). SOTT **AA-1400 Adhesive Activator** does exactly this: it forms a bridge between the paint and the film. Apply a small amount of primer to a clean cloth and wipe it onto the relevant area. Wait 15 minutes for a white haze to form. Then apply the film over it and heat the area as described in our guidelines. Any primer residue can simply be wiped off with **OMEGA SurfaceCleaner OS-C-010-1**. Important: the primer does not affect the car paint. Wet application is not possible over **AA-1400 Adhesive Activator**.

#Silanes are silicon compounds. In car paint, they improve the bonding and flow of the paint, but they reduce the adhesion of films.

POST-HEATING / POST-PROCESSING

When your application is finished, re-heat all stretched areas, critical areas and edges so that all tension is removed from the film. The film must, as it were, be 're-cast' in its new shape. Follow the post-heating instructions under Edges and Recesses.

We advise you to always shift the film tension. This greatly reduces the risk of the film lifting. Attend an OMEGA-SKINZ™ approved wrap training course to learn this technique. Your supplier can help you further, and you will also find a list of approved trainers on the website.

FOR QUESTIONS ABOUT OMEGA-SKINZ INSTALLATION TECHNIQUES:
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