

AUTO Wrap 3D - Film



The AUTO brand, exclusively from Spandex, is designed to cater for the ever-changing needs of professional wrappers, detailers and fleet applicators. The products are co-branded and have been developed in conjunction with leading manufacturers. AUTO offers a range of special edition automotive colours, paint protection films, digital wrap bundles, automotive tint films and accessories. The AUTO Wrap range has been manufactured by Arlon exclusively for Spandex.

PRODUCT DESCRIPTION

AUTO Wrap 3D Film is a 50 microns white gloss cast film with bubble releasing, tinted, clean removing, repositionable, permanent pressure-sensitive adhesive. The LX (Low Profile) X-Scape Technology® allows installers to achieve speedy installation while maintaining a high enough tack to ensure long-term bond. Designed for large format graphics, AUTO Wrap 3D is made of premium quality cast facestock with a low profile liner. The adhesive system is designed to provide excellent opacity as well as easy installation. The film provides superior conformability around rivets, curves, contours and channels. AUTO Wrap 3D is rated for outdoor durability up to 10 years (unprinted). Printed durability is dependent on the ink system used.

APPLICATIONS & FEATURES

- Vehicle graphics at low cost.
- One film for all-purpose applications e.g. Flat trucks, cars, passenger vans, trains and trams and general signage*.
- Easy installation with X-Scape Technology®.
- Low Profile (LX) liner for a smooth, paint-like finish
- Tinted adhesive for added opacity.
- Printable on Eco-Solvent, Solvent, Latex, and UV printers.

ADHESIVE

Clean Removing, Repositionable (Light Grey).

RELEASE LINER

Lay-Flat Polycoated with Low Profile X-Scape Technology®.

INK COMPATIBILITY:

- Solvent.
- Eco-Solvent.
- UV.
- Latex.

RECOMMENDED OVERLAMINATE:

- AUTO Wrap 3D Laminate, gloss, 35microns.
- AUTO Wrap 3D Laminate, matt, 50microns.

Technical Data

Surface finish <small>Gloss Meter 60° Reflection</small>	70 to 90 Gloss Units
Thickness ⁽¹⁾	2-mil (50 microns)
Peel adhesion	≥ 666.85 N/m
Dimensional stability ⁽¹⁾	Shrinkage 0.63 mm max.
Service temperature ⁽²⁾	-40°C to 80°C
Tensile strength	0,8 kg/cm
Elongation at break	≥ 200%
Shelf life ⁽³⁾	2 years from factory shipment
Application temperature	15°C to 38°C
Available width	137,2 cm 152,4 cm
Liner release	≤ 9.84 g/cm
Maximum service life by specialist application	10 years

Applies for vertical outdoor exposure (4)

(1) average (2) short-term exposure (3) in original packaging, at 20° C and 50% relative humidity (4) maximum service life when applied by a specialist, and with the proper maintenance and care. Vertical outdoor weathering and central European climate. The actual and expected service life is determined by the environmental conditions, as well as pre-treatment of the substrate and regular maintenance"



PREPARATION GUIDELINE:

- The better the preparation the better the result.
- Use conventional cleaning agents and cleaning clay.
- No substances that form a coating or sealing layer by nanotechnology.
- Remove all residues of preservative wax or polishing agents.
- Finally, all surfaces must always be cleaned with Pre-Wrap Surface Cleaner.
- Thoroughly dry the vehicle – especially under rubber seals.

PRINTING CONSIDERATIONS:

- It is important to allow ink to dry as much as possible before laminating or application (min. 24h).
- Use matched component laminates.
- Work area immediately around the printer is dust and dirt free.
- The printing areas should be in clean and temperature controlled area.

USE & APPLICATION:

Actual weathering durability depends on surface preparation, surface maintenance and exposure conditions. Successful weather resistance is characterized by the retention of legibility. AUTO Wrap 3D will resist weathering best when applied to vertical or upper outboard angles. Horizontal angles, such as hood and auto roof surfaces, will deteriorate more quickly than vertical. This is due to increased exposure to sun and moisture, as well as high deposition of dirt and atmospheric contaminants. AUTO does not recommend its film for horizontal or close horizontal applications. Use heat and/or chemical when removing image from vehicle.

Storing vinyl graphics in covered areas will help prolong the life of the film by limiting its exposure to damaging elements such as sunlight and rain. Protecting a wrapped car in the garage can keep it sheltered from all types of weather and harmful pollution, both of which could wear out the horizontal surfaces of the car and cause damage to the paint underneath. Film that starts to brown or show discoloration has been negatively affected by acidic pollutants and if not immediately removed could stain the paint. Taking extra steps to keep the film covered when not in use will help extend the life of the film and keep the car looking as good as it did when it was first wrapped.

APPLICATION GUIDELINE:

- Clean and dust free room, preferably with car lift or mounting ramp.
- Make sure you thoroughly clean all areas.
- Minimum temperature +15 °C rapid evaporation of residual moisture.
- When using air-egress adhesive film, applications require even more squeegee pressure to ensure the adhesive makes a firm bond.
- Adhesion builds up smoothly.
- After application, the adhesive must be allowed to harden before going into service. The absolute minimum time would be 24 hours.

MAINTENANCE GUIDELINE:

- 3 days after application: cleaning in car wash is possible.
- No high pressure cleaning recommended.
- For long lasting film properties we recommend regularly using cleaning and care products.

POST-CARE & CLEANING INSTRUCTIONS:

“Fleet graphics films can be easily cleaned using a pressure washer but can be damaged just as easily by improperly handling the water spray or incorrectly blending the cleaning solutions. Regular washing is highly recommended to avoid the necessity of deep cleaning and to prevent accumulating dirt. In order to keep the vinyl from degrading or lifting around the edges while pressure washing, it is important to adhere to the following guidelines:

1. Nozzle pressure should never exceed 1,300 PSI.
2. Water temperature should never exceed 140°F (60°C).
3. Nozzle tip should never be closer than five feet from the graphics.
4. Angle of water spray should be no shallower than 60° from perpendicular. Keep the nozzle spray pattern perpendicular to the overlapping direction.
5. Detergent solutions should always be blended with water at the correct ratio and pH (between 6 and 8). A more concentrated solution can damage both the adhesive and vinyl.
6. A post-washing, fresh-water rinse will help maintain the life of the paint and vinyl.

IMPORTANT TO NOTE:

The information in this datasheet is based upon our present knowledge and practical experience. The information is given without any guarantee or agreement with regards to the quality or properties of the material. It does not constitute a warranty of any certain quality, properties and/or service life concerning the AUTO SE colour films. Please note that by nature films are more sensitive than lacquers. Therefore, films must be treated and maintained with the greatest care. For application of colour films (wrapping and removal) as well as for maintenance and use, please refer to our documents 'Processing Guidelines'. If our guidelines are not followed, please be advised that in particular the maximum service life information, stated as based on our experience, does not apply and any warranty and liability is excluded.

REMOVABILITY GUIDELINE:

1. Heat the area to be removed evenly with your heat source to approximately 125°F (50°C). In some climates the sun will give sufficient heat to do this. If temperatures exceed 125°F (50°C) the vinyl may delaminate leaving the adhesive behind making the removal much more difficult.
2. Gently lift the edge of the graphic. When you have removed enough to get a good hand hold, begin lifting the graphic by pulling away from the vehicle at a 15° angle. Do not pull the vinyl away from the vehicle at an angle greater than 90° as this will cause the vinyl to delaminate leaving the adhesive behind.
3. Try to keep the leading edge of the removal in a straight line by spreading your fingers out along the top of the removed graphic. Pull slowly for a clean removal.

APPLICATION TRAINING:

Training & education is the key to success a perfect installation. Spandex offers regular training for customers interested in application courses. Please contact your local Spandex for more information.

NOTE: Surfaces to which the material will be applied must be thoroughly cleaned and free from dust, grease or any other contamination that could affect the adhesion of the material. Freshly lacquered or painted surfaces should be allowed to dry for at least three weeks and to completely cure. The compatibility of selected lacquers and paints should be tested by the user, prior to application of the material. We also recommend to test compatibility on raw & primed MDO prior to installation due to variation in substrate properties. Furthermore, the application information published by AUTO must be considered.

IMPORTANT NOTICE: All AUTO products are subject to careful quality control throughout the manufacturing process and are warranted to be of merchantable quality and free from manufacturing defects. Published information concerning AUTO products is based upon research which the company believes to be reliable although such information does not constitute a warranty. Because of the variety of uses of AUTO products and the continuing development of new applications, the purchaser should carefully consider the suitability and performance of the product for each intended use, and the purchaser shall assume all risks regarding such use. All specifications are subject to change without prior notice.

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