

# AUTO Wrap 1D - 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 1D Film is a 70 microns white polymeric film featuring a tinted permanent pressure-sensitive, solvent-based adhesive with air-X-Scape Technology®. The Low Profile X-Scape Technology® allows air to escape through the channels for a faster installation while maintaining high enough tack to ensure long-term bond. The high quality polymeric facestock ensures exceptional graphics for intermediate graphics. AUTO Wrap 1D is rated for outdoor durability up to 7 years (unprinted). Printed durability is dependent on the ink system used.

## APPLICATIONS & FEATURES

- Intermediate interior & exterior signage.
- Flat side vehicle, retail signage, kiosks, POP displays and real estate signage\*.
- Best value, multi-purpose film.
- Easy installation with X-Scape technology®.
- Tinted adhesive for added opacity.
- Printable on Eco-Solvent, Solvent, Latex, and UV printers.

## ADHESIVE

Permanent, solvent-based (Light Grey).

## RELEASE LINER

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

## INK COMPATIBILITY:

- Eco-solvents.
- Solvents.
- UV.
- Latex.

## RECOMMENDED OVERLAMINATE:

- AUTO Wrap 1D Laminate, gloss.
- AUTO Wrap 1D Laminate, matt.

## Technical Data

Surface finish <small>Gloss Meter 60° Reflection</small>	80 to 90 Gloss Units
Thickness <sup>(1)</sup>	70 microns
Peel adhesion	≥ 0.44 kg/cm
Dimensional stability <sup>(1)</sup>	Shrinkage 0.63mm max.
Service temperature <sup>(2)</sup>	-29°C to 65°C
Tensile strength	1.8 kg/cm
Elongation at break	≥ 150%
Shelf life <sup>(3)</sup>	1 year from factory shipment
Application temperature	15°C to 26°C
Available width	137.2 cm 152.4 cm
Liner release	≤ 15.7 g/cm
Maximum service life by specialist application	7 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, leave until product is as soft and as tacky as the unprinted one.
- Use matched component laminates.
- Keep the work area immediately around the printer dust and dirt free.
- The printing areas should be in a clean and temperature controlled area.

## APPLICATION GUIDELINE:

- Clean and dust free room, preferably with a 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:

- Do not wash wrapped vehicle for 2-3 weeks after application: cleaning in car wash is possible.
- Avoid brush car washes.
- For long lasting film properties we recommend to regularly use 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 film from degrading or lifting around the edges while pressure washing, it is important to adhere to the following guidelines:

1. Pressure washing, not brush car wash
2. Pressure gun perpendicular to washed surface
3. Min 30cm from vehicle

## 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 film 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 film away from the vehicle at an angle greater than 90° as this will cause the film 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.

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**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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