

LexJet Simple Flo Wrap Air-Free Vehicle Application Guide & Warranty Statement

LexJet Simple Flo Wrap Vinyl and LexJet Simple Flo Wrap UV Gloss Laminate

LexJet's Simple Flo Wrap Vinyl is a 2.4-mil, glossy white, ultra-conformable calendared adhesive-backed vinyl for wrapping vehicles, trucks, buses, and walls with graphics. The air-egress release liner on this high-performance vinyl enables air to escape as the graphics are installed, eliminating trapped air pockets that cause wrinkles and bubbles. Because the adhesive is repositionable, misaligned graphics are easy to fix during installation. Partner Simple Flo Wrap Vinyl with LexJet's Simple Flo Wrap UV Gloss Laminate to create a durable vehicle wrap that is removable for 1 year and permanent for up to 7 years. This vinyl/laminate combination performs well over rivets, corrugations, slight to moderate curves and flat surfaces. LexJet's Simple Flow Wrap Vinyl works well on a wide variety of printers that use latex, solvent, low-solvent and UV-curable inks. It offers substantial cost savings over cast-vinyl solutions.

Recommended Applications

LexJet Simple Flow Wrap solution is specifically engineered for use in most vehicle wrap and decal applications. Surface characteristics include:

- Corrugations
- Rivets
- Flat
- Slight to moderate curves
- Vehicles types: Vans, trucks, sedans, fleet, and recreational vehicles

Media Preparation Prior to Application

1. Did you choose the Simple Flo Wrap Vinyl digital media for your application?
2. Is the media within proper shelf life and has it been stored in a controlled environment (1-year shelf life at 60° - 80°F (15° - 26°C) @ 50% relative humidity)?
3. Are you using the proper ICC profile?
4. Has the media been allowed to air dry unrolled at 60° - 80°F (15° - 26°C) @ 50% relative humidity for a minimum of 24hrs prior to applying the Simple Flo Wrap UV Gloss Laminate? Inadequate drying can propagate vinyl and/or adhesive degradation and impede optimum performance.
5. Was the approved Simple Flo Wrap UV Gloss Laminate used to cover and protect the premium Simple Flo Wrap Vinyl digital media? The warranty is only valid when partnering Simple Flo Wrap Vinyl with the approved laminate, Simple Flo Wrap UV Gloss Laminate.

Pre-application Checklist

Prior to application, please use the following list to assist in a successful vehicle wrap.

1. The ideal location for an installation is indoors in a climate controlled environment. If this is not possible, do your best to protect the surface from changes in temperature, moisture, wind and dust as these will affect the integrity of the application.
2. Prior to application, remove all trim that may interfere with the wrapping process. This would include: license fixtures, antennas, nameplates, lighting fixtures, etc.
3. Identify possible points of failure, which may include: poor paint jobs, clear coat chipping, rust, dents, nicks, scratches, seams, silicon seals, and rubber window gaskets. The adhesive is designed to adhere to the painted vehicle surface, it doesn't stick to silicone, rubber etc...The material must be trimmed around these areas.

4. Ensure the vehicle has been kept indoors and surface has been cleaned with IPA (Isopropyl Alcohol, 70% concentration minimum) prior to application. Allow to air dry. The use of towels or rags may contaminate the cleaned surface. Pay special attention to edges, seams, around moldings and gaskets and where objects were removed. Use compressed air or a heat gun to ensure dryness.
5. The vehicle and environment temperature should be above 60°F (15°C) (prior to application).
6. Always ensure the finished graphic lines up with the vehicle before application.

Tool Kit

Standard tools needed for wrap applications:

- A temperature adjustable industrial heat gun, hair dryer, or propane torch. Caution, overheating the Simple Flo Wrap vinyl may cause burning.
- No-touch temperature gauge
- A hard and soft squeegee, or a hard squeegee with friction sleeve
- A sharp knife with many replacement blades
- Tape measure and positioning tape
- Air release tool (straight pin)
- Rivet brush
- Cotton gloves
- Masking tape

Recommended Application Instructions

1. Application begins at the back of the vehicle for vertical panels and from the bottom up for horizontal panels. This allows for all overlaps to face the back or the bottom which prevents wind and rain from causing a premature failure. Seams should have a 1/4 to 1/2 inch (0.64 - 1.3 cm) overlap.
2. Use firm pressure on the squeegee to apply the media to the surface, starting at the high points in the middle and working out toward the edges.
3. For channels, wherever possible lay the media through the channel rather than bridging and stretching the media. Any vinyl film (cast or calendared) can exhibit shrinking or tenting when overstretched or overheated.
4. In some instances it is not possible to negotiate complex curves. In this case, you will need to bridge the vinyl. Be sure only to stretch the vinyl and over laminate combination until firm. Overstretching may result in memory failure. At this point, it is suggested to cut the film in this area to relieve tension.
5. In many difficult areas, a thin layer of an adhesion promoter or acrylic spray primer can enhance adhesion. Be sure to use the primer sparingly and allow it to cure completely according to the directions on the can, prior to graphic application.
6. To bridge a gap properly, apply the film to the flat areas first as indicated above. Use heat to soften the film, somewhere around 160° to 200°F (71° - 93°C). Immediately stretch the film into the groove, starting at the middle of the groove and working out to both sides. Sometimes using a cotton glove or soft cloth instead of a squeegee is the way to go. Since the film cools quickly, it is important to work in small areas and continue to heat the film as your work moves along. Finally, after the film has been applied, to eliminate the stretching stresses created in this application, you must heat the film to a higher temperature, somewhere between 220° and 250°F (104° and 126°C). Move the heat source slowly. Now that the film has been applied, you are also heating the body of the vehicle and it takes more heat to achieve the final temperature requirement. Using a no-touch heat gauge is strongly recommended to ensure this very important step is done correctly.
7. Edges, seams and trim should be cut and re-squeegeed to ensure good adhesion. It is a very good idea to also use high heat along these areas to speed up the adhesive build (this is to overcome the repositionable adhesive we built into the film for ease of application) and ensure a good application. Do not wrap films around 180° turns, as this will most likely result in failure. Do not wrap films under the edges of the car or into areas that do not clean well.
8. **For over rivets, digital media with an overlaminated may tent and is not considered a reason for failure.** To apply, use the same technique as the bridging described above, apply the film over the flat areas, bridging the rivet head. Using an air release tool or pin, (do NOT use a knife blade as this will result in a cut propagation issue), poke multiple holes around the rivet head to release the air, then using heat and a rivet brush work the film down. Finally apply high heat to release any tension stresses and to ensure a quick high strength bond. The only proven way to eliminate tenting around rivets with an overlaminated film is to cut completely around the rivet head after application.

9. The Simple Flo Wrap gloss white vinyl series digital media employs Air-Free technology that allows air to flow easily in all directions. This will minimize the need to pop bubbles. However, it is still possible to get an occasional bubble due to our adhesive having very small channels, which will completely wet out during the squeegee process. Should a bubble appear use an air release tool or pin to prick the bubble. Do NOT use a knife as this starts a tear, which can result in a failure.
10. Do not over-heat or over-stretch the graphic media. Channels that result in the film being stretched too far must be cut.
11. After all the film has been applied, go back and apply heat to the graphic to a high temperature, 200 to 250°F (71° - 126°C), in the areas the vinyl has been stretched to relieve stresses created by stretching.

Tips and Tricks

1. Know your surface and its limitations (gaskets, rust, channels)
2. Provide a controlled environment and a clean vehicle.
3. Always use a sharp knife for trimming (snap-off or replace blades frequently).
4. Use an air release tool, not a knife, to relieve air bubbles.
5. Heated media applied to cold metal will cool quickly. Apply enough heat to do the job correctly and work in small areas.
6. Use heat to soften the film prior to stretching.
7. Use heat to relax the film after it has been stretched into the channels. This also allows the adhesive to build to a high bond quickly.
8. Seams and edges are common failure points. Be sure that edges are clean and dry. Cut all seams and then heat and re-burnish all edges to insure a good bond.
9. All printed materials must be given a minimum of 48 hours at 70 degrees F flat exposure to flash off any residual ink solvents before using the LexJet Simple Flo Wrap UV Gloss laminate. Failure to do so will trap residual solvents altering the performance of this product increasing the potential for premature film and adhesive degradation.

Simple Flo Wrap Warranty

The LexJet Simple Flo Wrap warranty covers the Simple Flo Wrap Vinyl and Simple Flo Wrap UV Gloss Laminate film when used in combination with each other. The use of any other base vehicle wrap film or over laminating film voids the LexJet Simple Flo Wrap vehicle wrap warranty. LexJet guarantees the interior and exterior durability of the Simple Flo Wrap Vinyl and Simple Flo Wrap UV Gloss Laminate as stated in application guide and specification sheet. This is based on vertical application and the product is within one-year shelf life. Any misuse or intentional application to a substrate not mentioned in the application guide also voids the warranty.

Warranty Details:

1. LexJet Simple Flo Wrap Warranty covers:

- a. Outdoor Durability:
 - i. Cracking, blistering, fading, hazing or peeling of the media in vertical exposure applications according to LexJet specification
 - ii. Loss of adhesion due to a manufacturing defect.
- b. Film Quality:
 - i. The correct film and identification
 - ii. Product used within one year of manufacturing
 - iii. The absence of film defects such as scratches, scuff marks and/or other defects in the full construction.

2. LexJet Simple Flo Wrap Warranty is contingent on:

- a. Regional application:
 - i. Exceptions:
 - 1. The exterior durability will be reduced by 50% in regions of extreme heat and U.V. exposure including: South Florida, AZ, NV, NM, UT, southwest TX, southern CA, Mexico, South America, Caribbean and other similar areas in the tropic, subtropics or areas with high pollution levels cannot be expected to have the same durability.
- b. Warranty Information:
 - i. LexJet requires all warranty inspection information to be on file prior to filing a claim to be eligible for reimbursement.
 - ii. LexJet will need the following information along with the warranty inspection information at the time of claim:
 - 1. Name and/or company name
 - 2. Lot numbers for films and processing components
 - 3. Report of processing conditions and in-process test results
 - 4. Finished decal retain samples
 - 5. Installation date and location, name of graphic installer
 - 6. Any other pertinent information requested by LexJet
 - 7. LexJet reserves the right to inspect all reported claims. Failure to comply constitutes a waiver of all rights under this Warranty.

3. LexJet Simple Flo Wrap Vehicle Warranty:

- a. What does not constitute breach of warranty:
 - i. When removed using generally accepted vehicle graphic removal techniques, the horizontal applications may leave 20% or less adhesive residue
 - ii. The areas which use adhesion promoters will typically exhibit 50% or more adhesive transfer during removal

- iii. Application of the LexJet Simple Flo Wrap Vinyl film to existing graphics and damage as a result of multi-layered graphic removal
 - iv. Slight tenting using Simple Flo Wrap solution may occur
 - v. Inks fade due to exterior exposure. The fading time of inkjet ink is a direct result of the inks that you choose to use and the environment where the print is displayed. Contact the ink manufacturer for light-fastness data.
4. Misuse and Force Majeure Statement:
- a. LexJet has no obligations under this warranty with respect to products that have been modified or damaged through misuse, abuse, accident, neglect or mishandling by Purchaser or Purchaser's customer. For example, unless specifically claimed in a LexJet product bulletin or application guide, graphics are not warranted against premature failure caused by chemical or mechanical means such as, but not limited to, vandalism, cleaning solutions, paints, solvents, improperly used high pressure washing equipment, engine fuel, spills, engine exhaust, steam, organic solvents or other spilled chemicals. Graphics applied to unsound surfaces or surfaces that subsequently crack, peel, outgas or become damaged beneath the graphic are not warranted for performance. Damage from fire, structural failure, and lightening and other force Majeure events is not covered.
5. Simple Flo Wrap Warranty Compensation:
- a. LexJet reserves the right to compensate warranted materials with either material credit on future purchases or monetary remuneration. LexJet warranty only covers defective material as outlined in this warranty. LexJet will not compensate machine down time, loss of profit, labor cost, ink used or damage to vehicle surfaces due to conditions outlined in this warranty.

Warranty and Limited Remedy

LexJet warranties the vehicle wrap film, Simple Flo Wrap Vinyl partnered with Simple Flo Wrap Gloss UV Laminate, to perform as stated in the data sheet for exterior exposure resistance given all the steps are followed therein. Possible partial adhesive transfer does not constitute product failure and LexJet will not be liable for residual adhesive residue. LexJet will not assume any liability for paint or clear coat failure due to faulty application, poor body, paint and clear coat condition due to age or environmental damage or the failure to follow the steps provided. In addition, any damage caused by "fallout" (a dust rust-colored surface condition caused by fossil fuel and turning acidic when mixing with water vapor) is result of environmental factors uncontrolled and unrelated to LexJet's manufacturing processes and is not considered a product defect. Therefore, LexJet retains the right to deny credit based on any or all of these factors.