

Bus and Train Wrap System - Body/Tail

White Printable Base Film/Luster Overlamine

A full bus or train wrap generates tremendous visual impact and very high levels of consumer recall for the advertiser. It's like a giant moving billboard presenting a promotional/branding message in a unique way. Superior adhesive performance is required for repositionability of the film during installation, clean removability at the conclusion of the promotion and for a good bond to fiberglass, painted metal and stainless steel. Films are ideal to conform to the shape of the bus or train while providing good opacity to hide other elements. To withstand abrasion and the rigors of regular bus and train cleaning, a film overlamine is important to keep the graphics intact. To meet all of the challenging requirements for bus and train wrap advertising, pressure-sensitive films and adhesives are the ideal solution for giving your brand the image it deserves. **For more information on FLEXcon's pressure-sensitive film solutions for bus and train wraps, contact LexJet at (800)453-9538.**



System Features:

While bus and train wrap advertising is ideal for generating consumer attention, it must be visually appealing despite exposure to the outdoors. FLEXcon's product system ensures application success with complete satisfaction. By using our suggested overlamine and printable base film, our system will meet the graphic and functional requirements of the application. Our system provides an exceptional bond to fiberglass, painted metal and stainless steel with clean removability at the end of the advertisement life. For the longest-term use of your bus and train wrap advertisements, FLEXcon's Bus and Train Wrap Advertising System is the guaranteed choice.

- CBS Outdoor Approved System -

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Bus and Train Wrap System - Body/Tail

White Printable Base Film/Luster Overlamine

Product: BUSart™ V 400 F White A-69 90 PFW BA (Base Film)

Benefits:

- 3.9 mil flexible white opaque vinyl conforms to compound curved surfaces
- Film possesses good opacity for hiding previous graphics and painted surfaces
- Excellent printability via solvent inkjet, electrostatic transfer and UV and solvent screen
- Removable pressure-sensitive acrylic adhesive adheres well to fiberglass, painted metal and stainless steel
- Adhesive system is designed to adhere to and remove from the paint on sound* OEM bus surfaces
- Optimized repositionable/removable adhesive system designed for installation ease and clean removability for up to 1 year
- Release liner has excellent layflat properties for efficient printing and handling
- Approved by CBS Outdoor for full and slim bus/train wrap body/tail advertising
- Designed to be overlaminated with BUSart OV for protection of graphics against abrasion and bus/train cleaning

*Sound paint surface is defined as possessing a 20 lb. per inch minimum peel bond between the paints and the paint-receptive surface.

Product: BUSart™ OV5020L (Overlamine)

Benefits:

- 3.5 mil flexible luster overlaminating vinyl provides a lustre finish
- Overlamine protects printed graphics from abrasion and bus cleaning
- Permanent pressure-sensitive acrylic adhesive bonds well to printed base film surface
- Adhesive offers excellent clarity for vibrant graphics
- Backed with a smooth release liner for adhesive clarity
- Flexible overlamine and base film (BUSart V 400 F White A-69 90 PFW BA) provides conformability around bus surfaces that are curved, flat or flat with rivets
- Approved and specified by CBS Outdoor for full and slim bus wraps

Recommendations for Both Base Film & Overlamine:

Application Limitations: The improper application of vinyl film over an emergency exit window seal will not permit the emergency exits to function as intended. This may create a safety hazard if installed improperly by the graphic installer. In order to permit the exits to function, it is necessary to trim around the emergency exit window seals. Under the Vehicle Safety Act of 1966, any violation of this act will result in civil penalties.

CAUTION: Please be sure that the printed graphics have been allowed to thoroughly dry, either through the use of heat or by exposing unrolled material to the air. If excessive solvents remain, they may penetrate the vinyl, causing it to become overly soft and pliable, inhibiting proper installation of the graphic.

NOTE: This product is designed to accept electrostatic image transfer via the use of a heat laminator. Many variables affect the final image adhesion to the substrate including: toner, transfer media and heat/nip pressure on the laminator (typical images transfer at 240°F to 250°F (116°C to 121°C) top of roll setting). Please evaluate these variables before production scale-up. Also note, the polycoating on the back of the release liner will melt if the temperature of the lower roll exceeds 200°F (93°C).

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BUSart™ V 400 F White A-69 90 PFW BA

PRODUCT DATA	VALUE	TEST METHOD
Physical Properties		
Thickness (Mils[microns])	Film	3.9 (99) +/- 10%
	Adhesive	0.8-0.9 (20-23) +/- 0.1 (3)
	Liner	6.9 (175) +/- 10%
Dimensional Stability (%)	MD	0.75
	TD	0.50
Adhesion Properties		
Ultimate Peel from	Average	ASTM D 3652
	Oz/in (N/m)	ASTM D 3652
Fiberglass	27	(297)
Painted Metal	25	(275)
Stainless Steel	24	(264)
Expected Shear		
		ASTM D 3654 Method A
		a. 1 hr. dwell
		b. 1 sq. in. surface
		c. 4 lb. load
Room Temp (hours)	5	
Tack (gm/sq cm)	230	ASTM D 2979
Expected Exterior Life	Up to one year removability from sound paint surfaces with little or no adhesive residue*	
Service Temperature Range	-20°F to 176°F (-29°C to 80°C)	
Minimum Application Temperature	50°F (10°C)	
Storage Stability	Two years when stored at 70°F (21°C) and 50% relative humidity	

* Sound paint surface is defined as possessing a 20 lb. per inch minimum peel bond between the paint and the paint-receptive surface.

Product Performance and Suitability

All of the descriptive information, the typical performance data, and recommendations for the use of FLEXcon products shall be used only as a guide and do not reflect the specification or specification range for any particular property of the product. Furnishing such information is merely an attempt to assist you after you have indicated your contemplated use and shall in no event constitute a warranty of any kind by FLEXcon. All purchasers of FLEXcon products shall be responsible for independently determining the suitability of the material for the purpose for which it is purchased. No distributor, salesman, or representative of FLEXcon is authorized to give any warranty, guaranty, or make any representation in addition or contrary to the above.

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BUSart™ OV5020L

PRODUCT DATA	VALUE		TEST METHOD
Physical Properties			ASTM D 3652
Thickness (Mils[microns])	Film	3.5 (89) +/- 10%	ASTM D 3652
	Adhesive	1.0-1.1 (25-28) +/- 0.1 (3)	
	Liner	3.1 (79) +/- 10%	
Dimensional Stability (%)	MD	0.50	Applied Shrinkage: 24 hour dwell time on aluminum panel then 24 hours at 160°F (71°C)
	TD	0.50	
Adhesion Properties			
Ultimate Peel from	Average		ASTM D 903 (Modified for 72 hour dwell time)
	Oz/in	(N/m)	
Acrylic	59	(649)	
Glass	20	(220)	
Stainless Steel	26	(286)	
Expected Shear			ASTM D 3654 Method A
			a. 1 hr. dwell
			b. 1 sq. in. surface
			c. 4 lb. load
Room Temp (hours)	5		
Tack (gm/sq cm)	200		ASTM D 2979
Expected Exterior Life	One year		
Service Temperature Range	-40°F to 176°F (-40°C to 80°C)		
Minimum Application Temperature	50°F (10°C)		
Storage Stability	One year when stored at 70°F (21°C) and 50% relative humidity		

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