

# Outdoor Durability for Stainless Steel & Tanker Applications

Instructional Bulletin #6.80 (Revision 1)

Dated: 12/31/14

## 1.0 Scope

This bulletin describes the durability expectations for graphics applied to Stainless Steel Trailer, Stainless Steel Tanker, Aluminum Tanker, and Painted Tanker graphic applications. These applications are typically subjected to frequent cleanings, often with caustic or acidic cleaners that can dissolve adhesives and/or affect the vinyl and inks over time. In addition, the “cylindrical” tanker trailers have areas where a large portion of the applied graphic see harsher (less than vertical) exposure. These factors can cause vinyl graphics to degrade prematurely. For all Stainless Steel Trailer, Stainless Steel Tanker, Aluminum Tanker and Painted Tanker applications the durability in years is shown below. The durability shown below takes precedence over any other document information.

## 2.0 Stainless Steel Trailer Applications:

Material	Zone 1	Zone 2	Zone 3
<b>Cut Vinyl - Unprinted</b>			
SC 900 Opaques	4	3	2
HP 700 Opaques	2	1	1
HV 1200 Reflective	NA	NA	NA
<b>Screen Printed</b>			
SC 900 Opaques	4	3	2
HP 700 Opaques	2	1	1
HV 1200 Reflective	NA	NA	NA
<b>Digitally Printed</b>			
MPI 1000 Series	4	3	2
MPI 2005, 2102, 2105, 2120, 2122	2	1	1
MPI 6200 Reflective	NA	NA	NA

**NOTE:**

- See Instructional Bulletin 1.30 [Durability of Films](#), for Zone Charts
- The use of an edge sealer is required to provide ultimate protection against graphics failure.
- Recommended inks, clear coats or laminates must be used for printed graphics as shown below.
- Rear printed graphics must be protected with recommended laminate as shown below.
- Vertical exposure only.
- Reflective Products are not recommended for stainless steel applications.

## 3.0 Stainless Steel Tanker Applications:

Material	Zone 1	Zone 2	Zone 3
<b>Cut Vinyl - Unprinted</b>			
SC 900 Opaques	3	2	1
HP 700 Opaques	1	1	1
HV 1200 Reflective	NA	NA	NA
<b>Screen Printed</b>			
SC 900 Opaques	3	2	1
HP 700 Opaques	1	1	1
HV 1200 Reflective	NA	NA	NA

## Section 6 – Special Product Information

Instructional Bulletin

<b>Digitally Printed</b>			
MPI 1000 Series	3	2	1
MPI 2005, 2102, 2105, 2120, 2122	1	1	1
MPI 6200 Reflective	NA	NA	NA

**NOTE:**

- See Instructional Bulletin 1.30 Durability of Films, for Zone Charts
- The use of an edge sealer is required to provide ultimate protection against graphics failure.
- Recommended inks, clear coats or laminates must be used for printed graphics as shown below.
- Rear printed graphics must be protected with recommended laminate as shown below.
- Reflective Products are not recommended for stainless steel applications.

**4.0 Aluminum, or Painted Tanker applications:**

<b>Material</b>	<b>Zone 1</b>	<b>Zone 2</b>	<b>Zone 3</b>
<b>Cut Vinyl - Unprinted</b>			
SC 900 Opaques	3	2	1
HP 700 Opaques	2	1	1
HV 1200 Reflective (painted tankers only)	3	2	1
<b>Screen Printed</b>			
SC 900 Opaques	3	2	1
HP 700 Opaques	2	1	1
HV 1200 Reflective (painted tankers only)	3	2	1
<b>Digitally Printed</b>			
MPI 1000 Series	3	2	1
MPI 2005, 2102, 2105, 2120, 2122	2	1	1
MPI 6200 Reflective (painted tankers only)	3	2	1

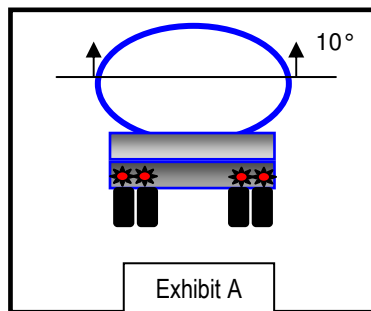
NOTE:

**NOTE:**

- See Instructional Bulletin 1.30 Durability of Films, for Zone Charts
- The use of an edge sealer is required to provide ultimate protection against graphics failure.
- Recommended inks, clear coats or laminates must be used for printed graphics as shown below.
- Rear printed graphics must be protected with recommended laminate as shown below.

**5.0 Tanker Durability**

Any graphic applied above the 10° mark as shown in Exhibit A, will have no expectation of durability. This exposure angle is the same as “Vertical” as shown in Instructional Bulletin 1.30, Warranty of Films.



**Section 6 – Special Product Information**  
Instructional Bulletin

## 5.0 Approved Screen & Digital Inks for Printed Graphics:

Manufacturer	Model	Ink
Hewlett-Packard	8000	780
	9000	790
	10000	790
	XL 1200 (former XL Jet)	XL 100, XL 200, XL 300
	Novo	DR 100
	Pressjet	DR 100
	TJ 8300 (TurboJet)	TJ 100
	L25500	Latex
	L65500	Latex
	LX 600	Latex
	LX 800	Latex
	Mutoh	Falcon II Outdoor
ValueJet		Eco Ultra
Mimaki	JV3	SS-2
	JV33	SS-21
	JV5	HS-1
Roland	All models using eco ink	Eco-Sol MAX
Seiko	ColorPainter 64S	EG Outdoor
	ColorPainter 100S	EG Outdoor
	ColorPainter H-74S	EG Outdoor GX
	ColorPainter H-104S	EG Outdoor GX
VUTEk	All UltraVu Solvent printers	UltraVu 5 Ink

## 6.0 Approved Protective Laminates & Clearcoats for Printed Graphics:

	MPI 1000 Series	MPI 2000 Series	MPI 6200 Reflective	SC 900 Opaques	HP 700 Opaques	HV 1200 Reflective
DOL 1000 Series						
DOL 1300 Series						
DOL 2000 Series						
Nazdar 3529 Clear coat						

These durability references are made to replace any interpretations based on [Warranty of Films](#) Instructional Bulletin 1.30.

### Important:

Information on physical and chemical characteristics are based on tests believed to be reliable. The values are intended only as a source of information. This information is given without guaranty and do not constitute a warranty. The purchaser should independently determine, prior to use, the suitability of any material for their specific purpose. (Data represents average values where applicable, and is not intended for specification purposes)

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## Section 6 – Special Product Information Instructional Bulletin

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## Section 6 – Special Product Information Instructional Bulletin

Page 4 of 4



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