

# **Mastering Mounting: Handling Digitals**

**Chris A. Paschke, CPF GCF**

**West Coast Art & Frame, Las Vegas 2025**



Shown on metal, canvas, paper.



## Inkjet as Art

Originally used as prepress, Aqueous inkjet and dye sublimation fit into the fine art category. Shown on metal, canvas, paper.

# Inkjet as Textiles

Inkjet textile printing on assorted woven fabrics, often polyester, is everywhere:

- Hanging Signage
- Backlit Signage
- Draped on Buildings
- Double-Sided Flags
- Banners
- Tents and Awnings
- Home Soft Goods
- Home Furnishings
- Personalized Products
- Fabrics and Apparel







Dye Sublimation Inkjet on flexible fabric for home and wall décor.



Changes VII  
526DVG0443-MR

## Art as Wallpaper Solvent Inkjet

Shown on ceiling, risers and wall



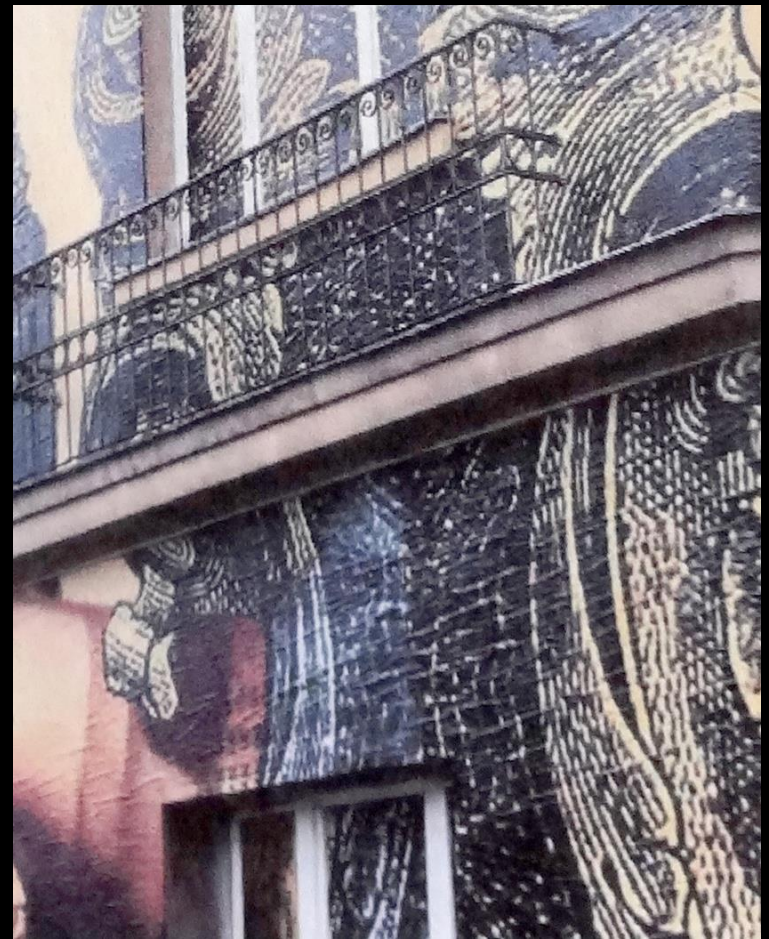


## Art as Vehicle Wrap

Solvent, UV Curing, or Latex Inkjet

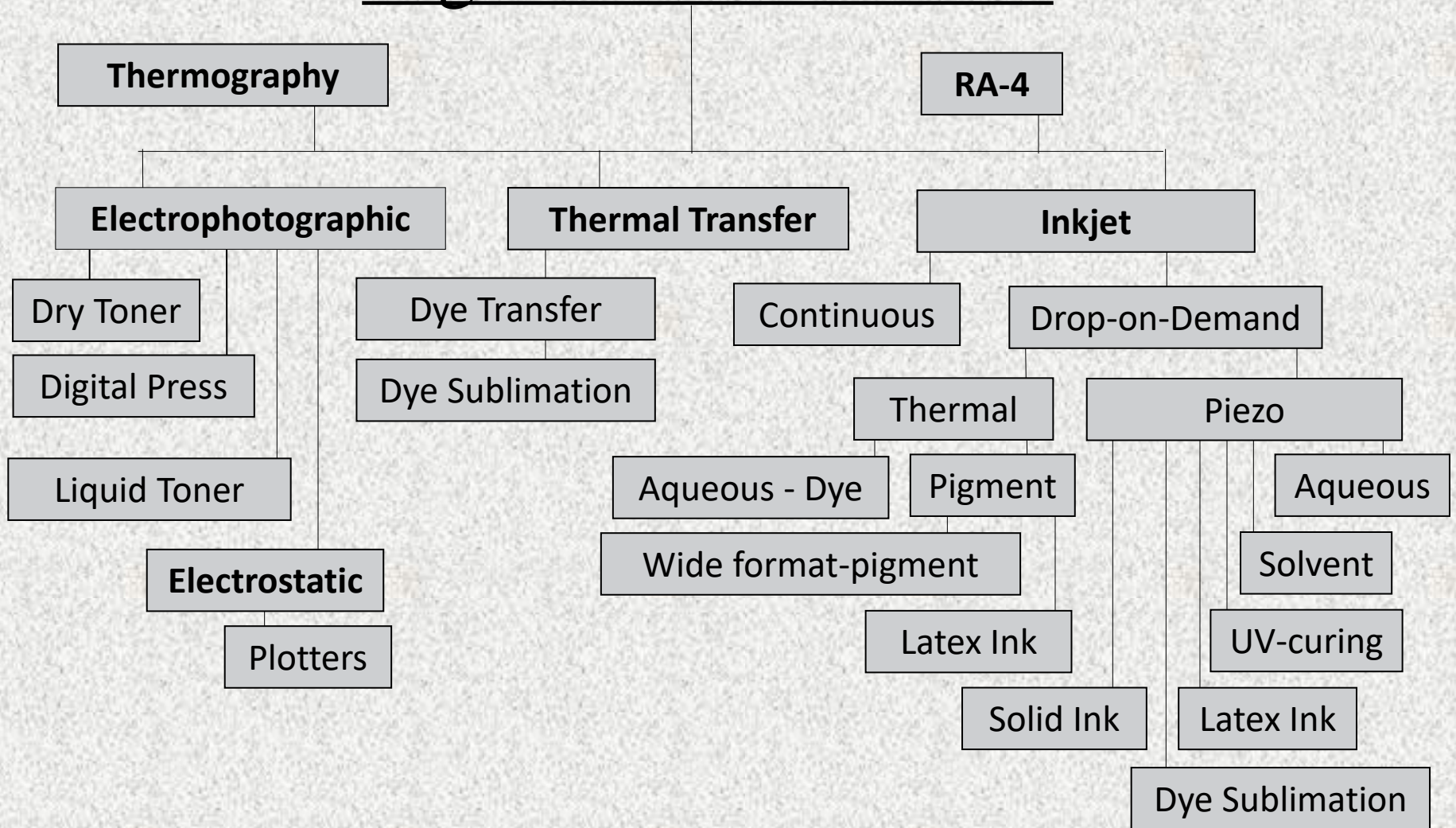
Wrapped bus ad for Copenhagen Zoo





Mural installation 65'x49' digital graphic applied to wall using wheatpaste and coarse bristle brush on residential building in Berlin.

# Digital Umbrella 2025





# Thermography – Typographic Method

## **Direct Thermal**

Relies on heat to create the letters & images on paper.

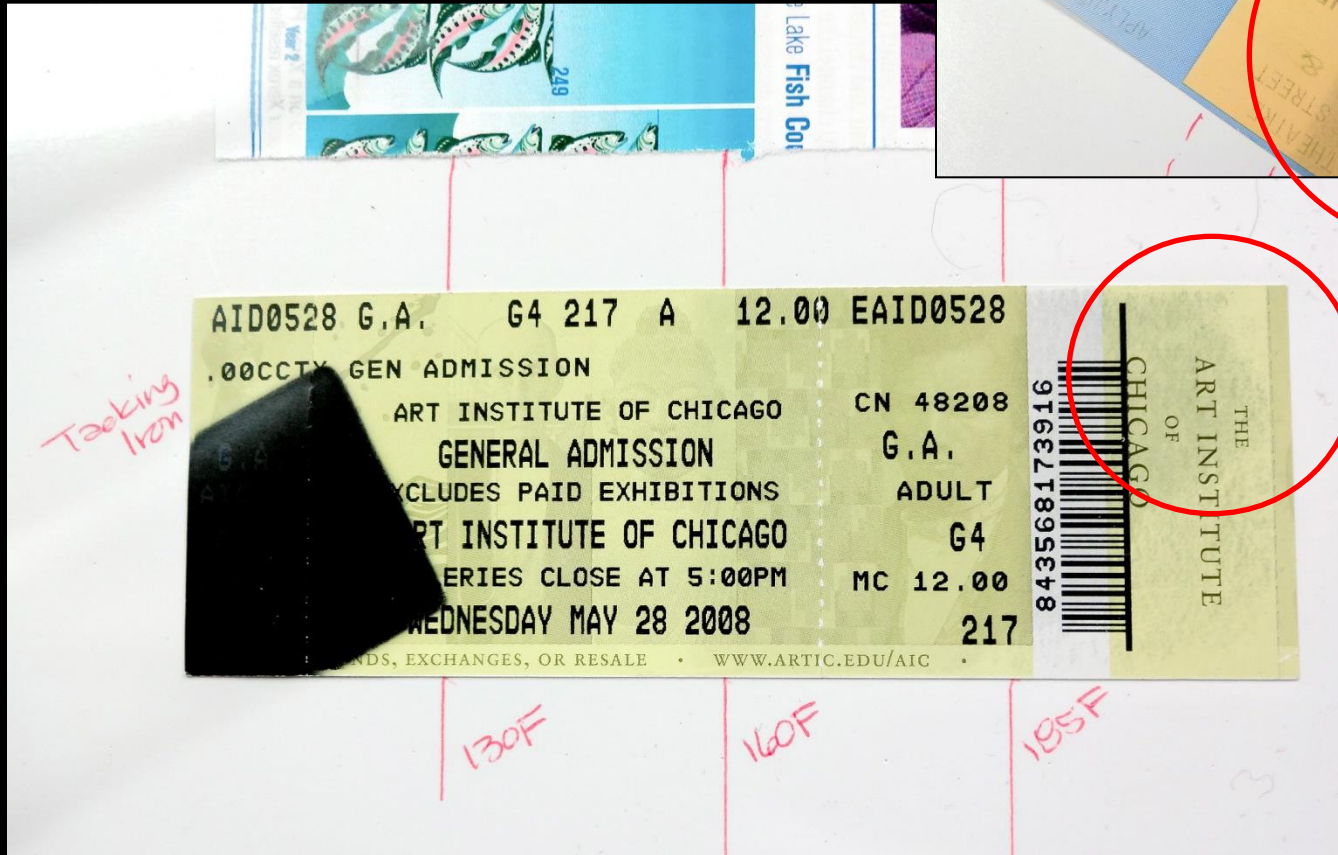
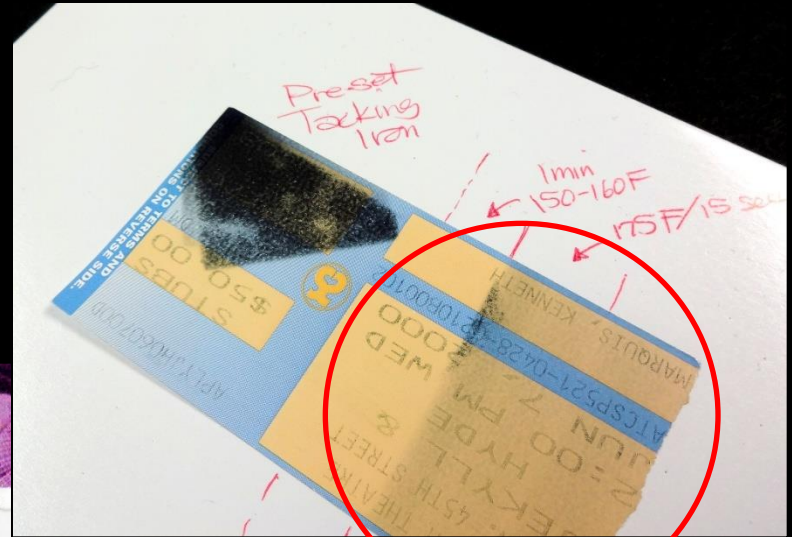
- Paper coated to change color
- No ribbon or ink transfer
- Original FAX machines and Sales Registers
- Still used for barcodes

## **Raised Print Process**

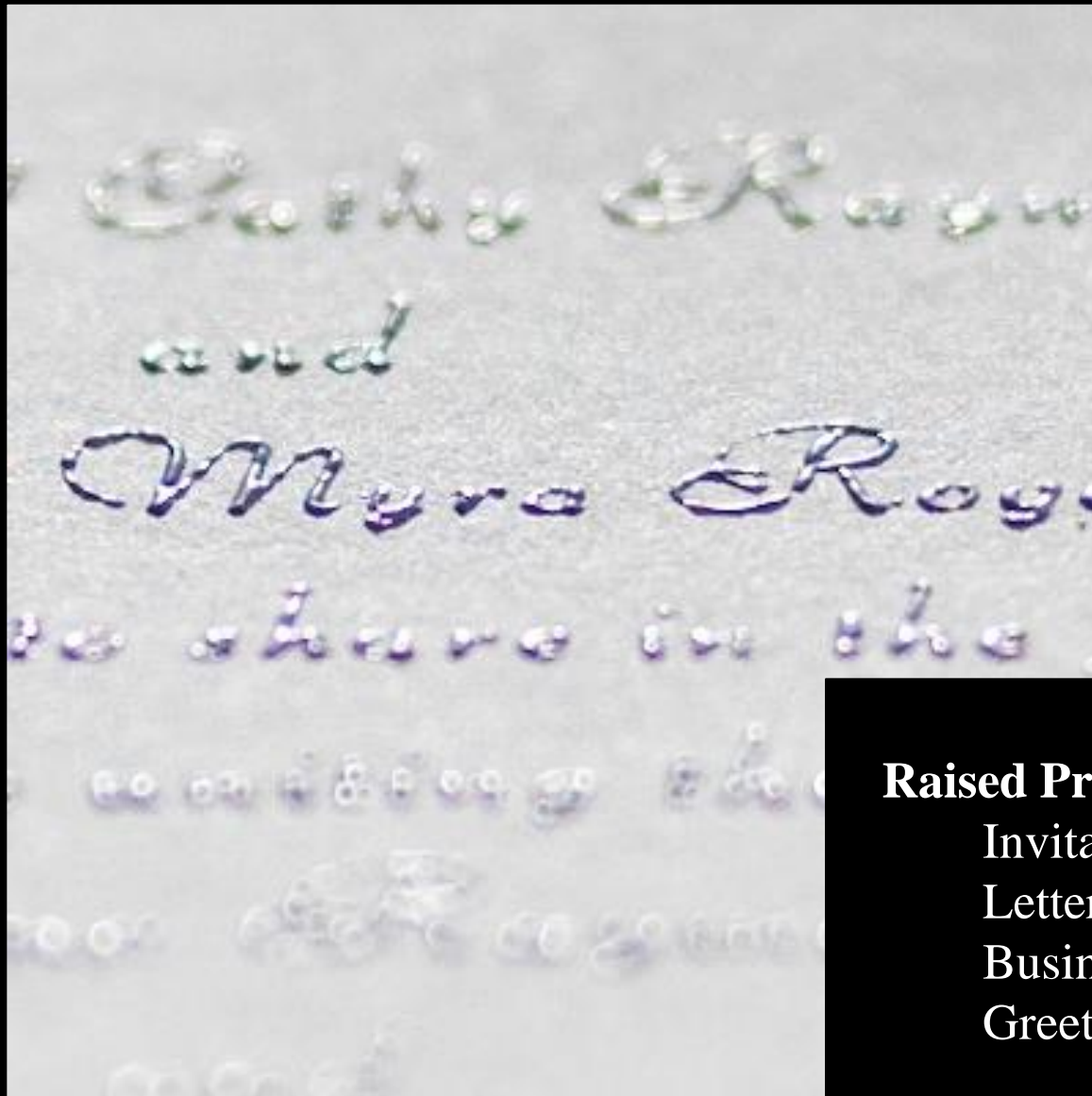
Post print process achieved using traditional printing in a three-step process:

1. Applies plastic resin thermographic embossing powder to the substrate.
1. Vacuums extract powder from non-inked areas.
2. Heat-sets at 90°F to 130°F.

# Thermography







## **Raised Print Process**

Invitations

Letterhead

Business cards

Greetings cards

# Digital Umbrella

## Electrophotographic

### **Dry Toner**

Copiers - 8-1/2"x11" thin 20-22# plain paper

B&W Laser - Monochrome toner

Brother, Canon, HP, Lexmark, Xerox

Color Laser - Toner

Brother, Canon, HP, Lexmark, Xerox, Ricoh

Imaging technology that takes a digital file and using a photoreceptor, light source, electrostatic principles, and toner produces a print.



**IAA Standards & Initiatives**

**IAA Initiative Process**

**Today**

- IAA serves seven active technical committees, which develop standards, test and certify products, and administer domestic and international committees with combined members from around the world.
- IAA's technical committees encompass all aspects of imaging, from traditional film photography to the latest in digital imaging technologies.
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As the pace of technological change continues to accelerate, and we become more dependent on digital products, services and systems, the need for, and importance of, standardization in the industry is becoming more and more apparent. IAA is the leader in development of standards and industry association worldwide. IAA is the leader in development of standards and industry association worldwide.

IAA served for many years as the Administrative Secretariat for the American National Standards Institute (ANSI) and the International Organization for Standardization (ISO). IAA's technical committees were converted to IAA Image Technology Committees in 2001.

IAA standards are approved using an ANSI-accredited IAA standards development process. IAA standards are approved using an ANSI-accredited IAA standards development process.

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**IAA Launches Digital Photo Preservation Website at [www.savemymemories.org](http://www.savemymemories.org)**

Las Vegas, NV—The International Imaging Industry Association (IAA) has launched its new website, [www.savemymemories.org](http://www.savemymemories.org), to help consumers protect their digital photos and prevent the loss of their memories.

The new site showcases the results of IAA's recent Consumer Photo Preservation Initiative, in which industry leaders collaborated to investigate the issues and develop solutions for the storage and backup of consumers' digital photos. The site explains:

- How to create a backup solution for long-term storage.
- The pros and cons of various methods and media, and how to choose the right one for your needs.
- Tips for organizing photo collections to make it easy to locate individual photos.

For more than 150 years, photography has shaped our lives—preserving precious moments and capturing memories. Digital technology has changed the way we capture and share our photos, but the need to safeguard our visual heritage remains the same. IAA is committed to helping consumers protect their digital photos and prevent the loss of their memories.

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**FEATU**

by Elizabeth Cunningham

# New Ideas, Technologies, Printing & Finishing

Industry report

**FEATU**

By Elizabeth Cunningham

# Black-and-White Lives: Inkjet and Photo Solutions

to find new niche markets, have you thought about inkjet printing? Did you know that you can change inkjet fiberlike media. There are huge collections of inkjet printed, and guess what, they are B&W. Inkjet cameras displays, greeting cards, calendars, even inkjet printers, or a minilab, or a Durst Lambda, or a B&W lab technicians are still using enlargers together? Because there's good money in the inkjet technologies, UK and Elford The Cji Group, inkjet for two years, came to PMA with strong inkjet to sort them out since both offer inkjet inkjet label, but...

with all the "Current 30-inches wide to 20-inches look at inkjet based B&W. George has new B&W inkjet vs. photo? I sure like 2.75

3100ps

designjet Z Photo Printer GP Photo Printer for consistent and use specialized

**SaveMyMemories.org**

## Are your memories safe?

For more than 150 years, people have recognized the unique value of photography. Imagine how this groundbreaking invention has shaped our lives, giving way to preserving precious memories of the places and events in our world. And while digital technologies have changed the way we capture and share photos, the desire to safeguard our visual heritage today, and in the future, remains essentially the same. The companies that comprise the International Imaging Industry or IIA understand this all too well. That's why we created this site to help you understand the how to prepare and preserve your photographic memories for years to come.

### Quick start

- 1. Protect your Pictures**  
If you have all of your digital photos stored on your computer but have yet to do anything else with them, take steps to protect them right away. Make prints, copy to CDs or DVDs, a second hard drive, or use an online service for storage.
- 2. Organize**  
If you use a photo software program or create your own system based on folders and file names, they need to be organized in a way that lets you find them when you want them. Learn more about how to want to create a place or use a method that will help you to locate them easily and quickly. Don't want to lose them.
- 3. Stay Informed**  
Watch the industry for technical developments, always use common sense when using new technologies.

Electrophotographic Color Copies – dry toner





Electrophotographic four color toner copies and heat damage



# Digital Umbrella

## Electrophotographic (xerographic)

### Liquid Toner

Color Digital Presses – Photographs , Book Printing

- HP Indigo



HP 200K Digital Press



Electrophotographic liquid toner – HP Indigo





Digital press toner lifts ink from paper when laminate is lifted to realign



Heidelberg Digital Press – changed color under heat and laminate



# Digital Umbrella

## Electrostatic

### Large-format Printers/Plotters

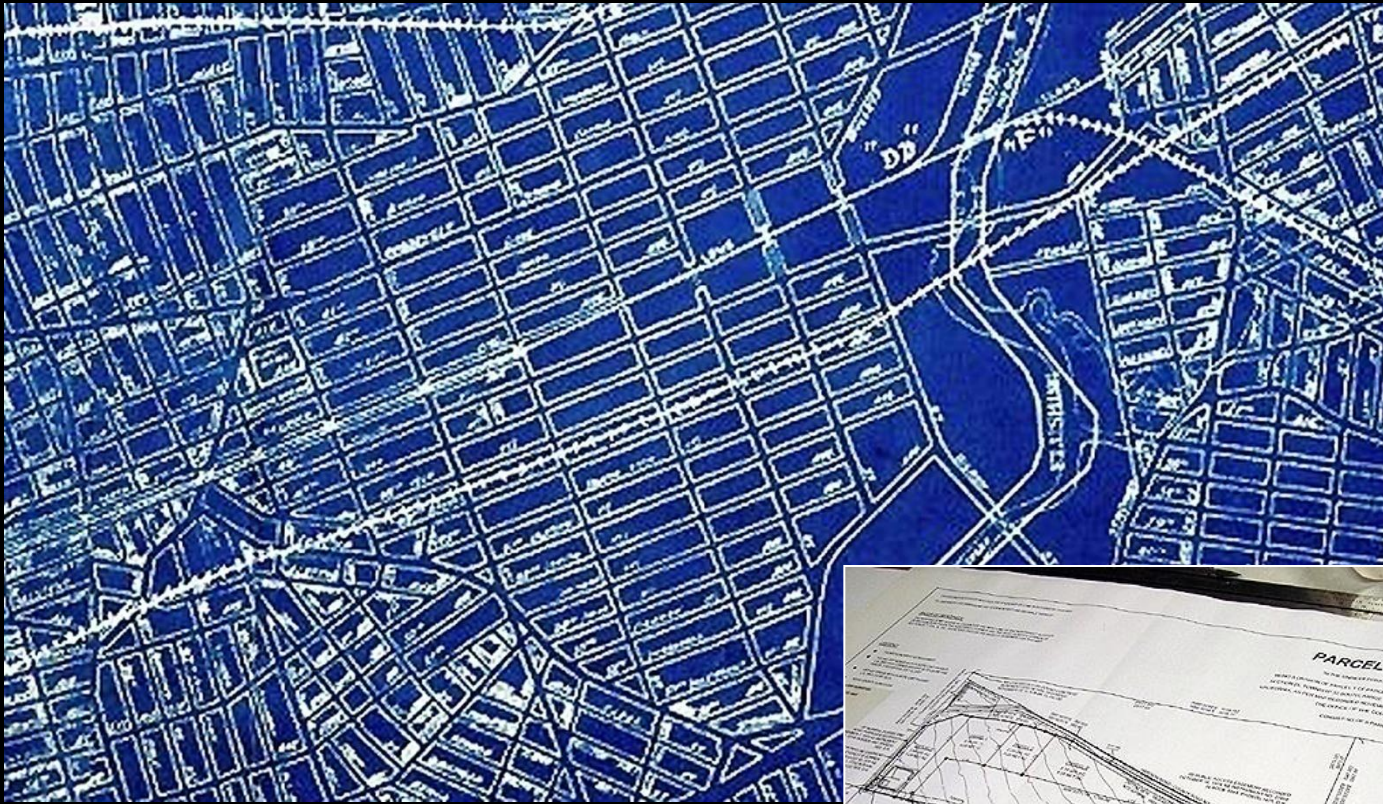
- Bluelines & Maps, Labels, Textiles
- Monoprints and Color Prints
- HP, Roland, Epson

HP DesignJet T630

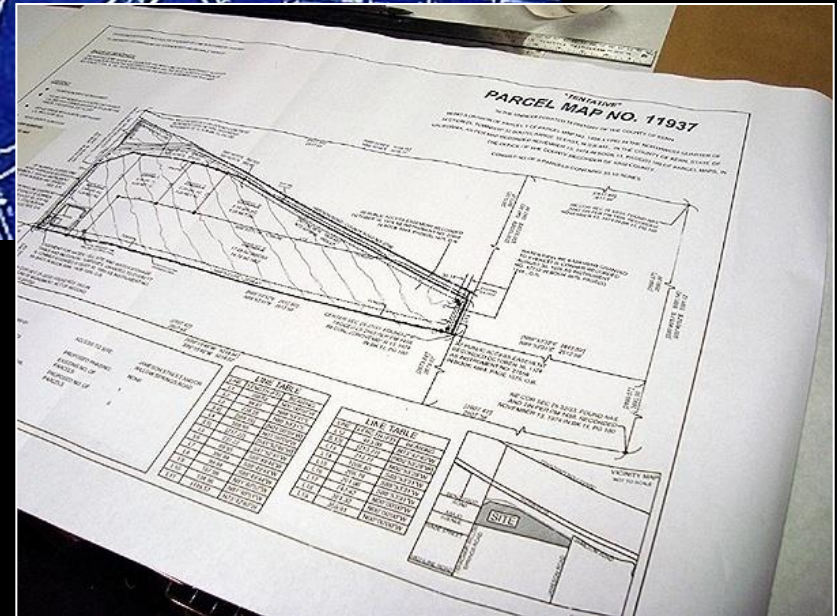


A static electricity charges the surface of a photosensitive drum. The image is projected onto the sensitized surface then dry toner powder is attracted to the image, resulting in a visible image onto paper.

Since 1967.

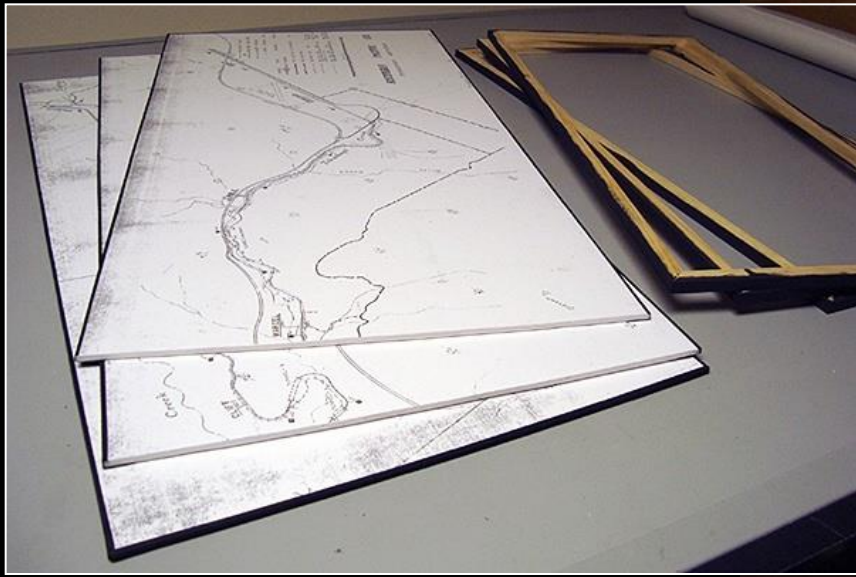
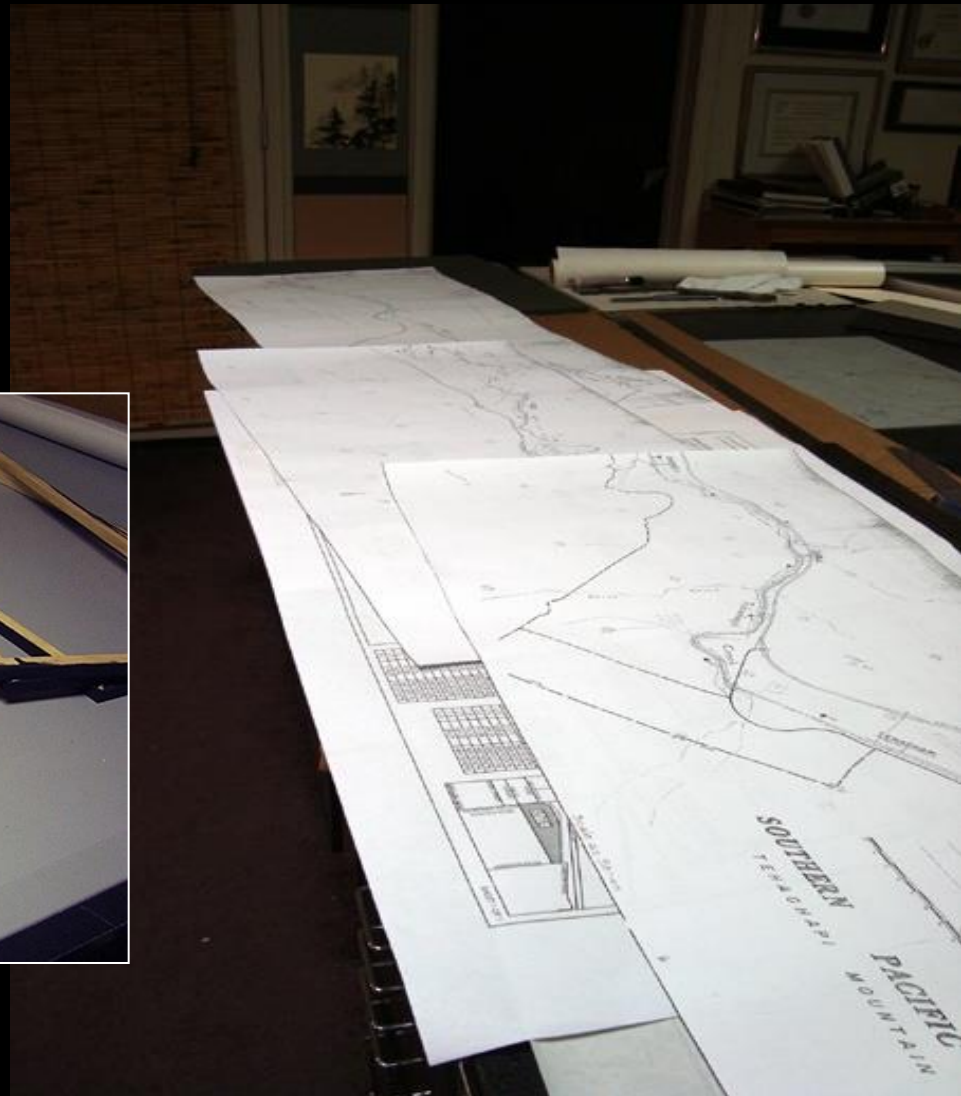


Traditional Blueprint



Electrostatic  
Blueline





Electrostatic Dry Toner Plotter - Blueline



Blueline mounted and laminated with lifters



# Digital Umbrella

## Thermal Transfer

### Dye Transfer

#### Transfer Printers

- Photo Kiosks (discontinued)
- Brother, Epson, Zebra

A photo printing process  
1920s-1950s of CMY dye used  
to print Technicolor films  
and color prints.

### Dye Sublimation

#### Photo Printing

- Uses a ribbon of solid ink that sublimates to a gaseous state and embeds to paper.
- Epson SureColor, HP

#### Dye Sub Inkjet

- Liquid inkjet
- To textile, ceramic, aluminum...



Mitsubishi Electric dye sublimation kiosk prints





Cropped and bordered photos are an indicator of thermal transfer kiosks

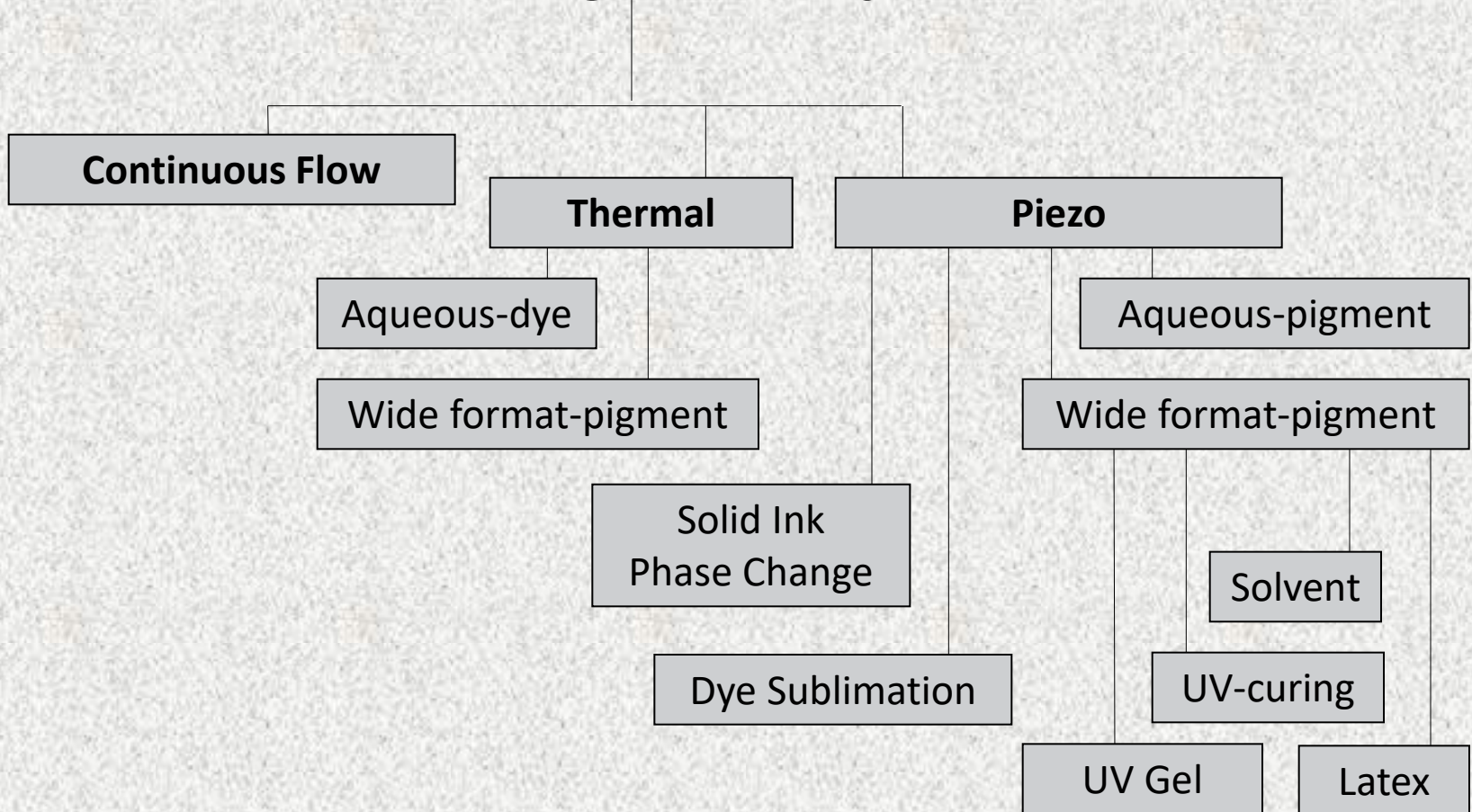




Dye sublimation technology is common for photos at weddings, sports and special events



# Digital Inkjet



# What is Inkjet?

Inkjet printing is a type of computer printing that creates a digital image by propelling droplets of ink onto paper.

It used to be all about the process: Thermal vs. Piezo.

Current definitions are all about the equipment:

Format - Rollfed vs. Flatbed

Size - Desktop - A4 for home and office

Large-format - 18" to 36" wide

Wide-format - 36" to 10' wide

Grand format- over 10'

Ink - Aqueous, Solvent/Eco-Solvent, UV Curing,  
UV Gel, Latex, Resin-Latex, Solid, and  
Dye Sublimation,





Fuji Acuity Rollfed and Flatbed UV printers



## Printer Size

Desktop = up to 11x17"

Large Format = 18" to 36"

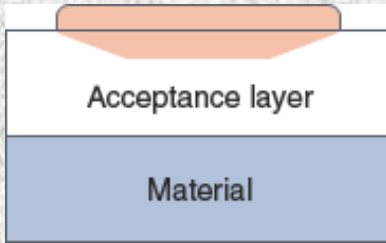
Wide Format = 18" to 10'

Grand Format = over 10' wide

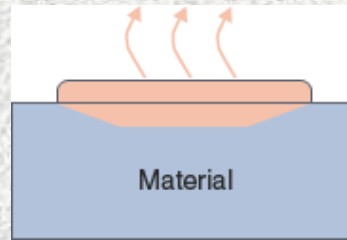
Grand-Format building wrap  
in Philippines



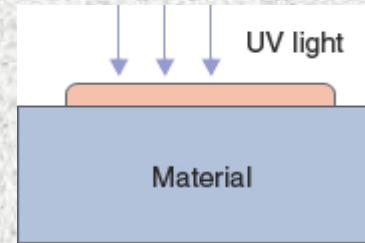
# Comparison of Four Basic Inkjet Printers



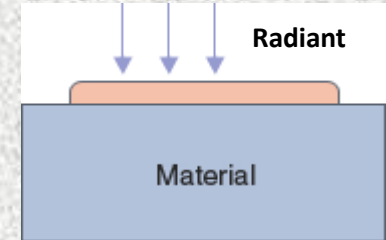
**Aqueous Ink**  
has less odor and rich color, for indoor use of poster and fine art. The ink penetrates the media during drying, making compatible substrates limited.



**Solvent Ink**  
dries quickly by heat and evaporation. Great for outdoor commercial use as they do not need special coatings, are waterproof, durable and resistant to UV light.



**UV Curable Ink**  
cures by UV light instantly onto the substrate without the ink seeping into the surface, so they may be used with materials without special preparation.



**Latex Ink**  
dries by internal radiant heaters with forced airflow to cure and produce dry prints inside the printer.



# Inkjet vs. Giclée

**Giclée are inkjet, but not all inkjet are giclée.**

**Inkjet** generically refers to small format desktop printing to plain paper from word processing.

**Giclée** is an individually produced, high-resolution, high-fidelity, high-tech reproduction (CMYK) done on special large format pigment ink printers using only high-gamut, moisture-resistant, archival inks.

Iris, Roland, Canon, HP, Epson



# Archival Inks

## Dye-base Ink

- Excellent color gamut
- Molecularly soluble in its vehicle (water)

## Pigment Ink

- Excellent permanence
- Not molecularly soluble
- Embed into receiving layer making them water-resistant
- Less susceptible to destructive environmental elements

Many digital papers have coatings which enhance gamut, making them susceptible to scuffing and scratching which diminishes the archival properties of the print.

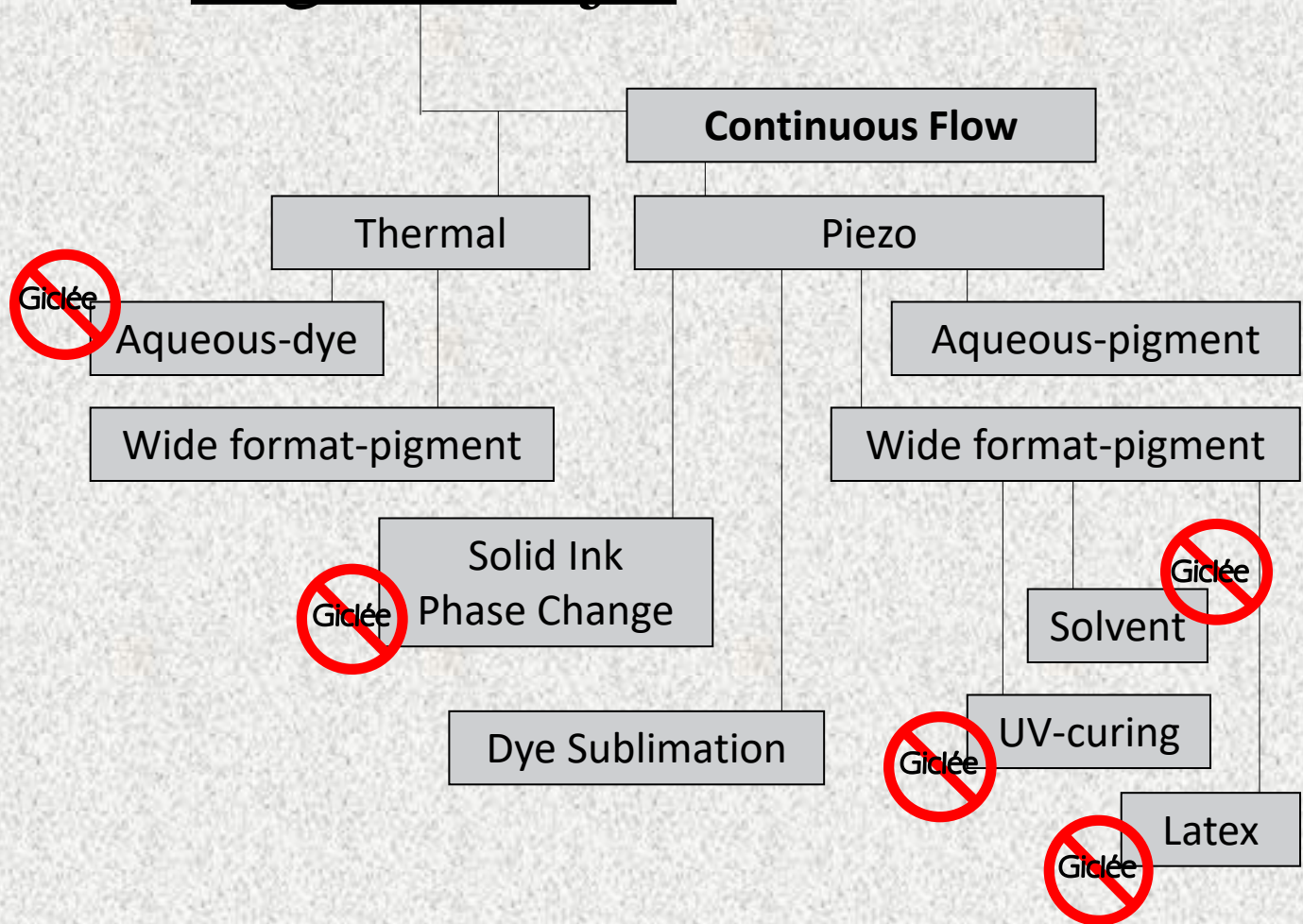
# Is Solvent Inkjet Giclée Quality?

The biggest question is not giclée or not, but rather will solvent inkjet have long term stability and lightfastness.

Today many publishers use solvent, eco-solvent, UV, latex, and dye sublimation printers to produce canvases, gallery wraps and wall décor.



# Digital Inkjet



# Digital Inkjet

## Continuous Flow

### **Giclée Fine Art Images**

Digital, color calibrated, large-format

Print to Fine art paper, silk, canvas, bamboo, acrylic, aluminum

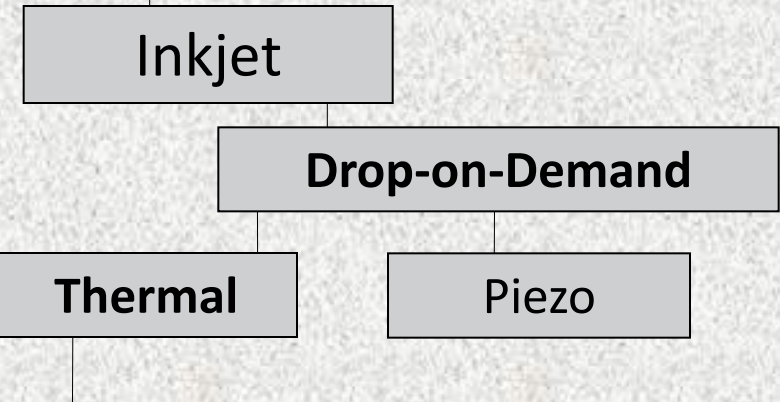
- IRIS (1984)
  - Designed as a digital prepress for proofing colors
  - Piezoelectric technology
- Epson large-format printers replaced IRIS by 2010





Continuous flow fine art inkjet

# Digital Umbrella



## Aqueous Dye Inkjet



**Desktop** -Plain paper, photo paper, light coated paper

- HP, Canon

**Large Format – Pigment Ink**

- Canvas, photo, film, Tyvek, textured & coated paper
- HP, Canon

**Wide Format – Pigment Ink**

- HP Z-series, Canon imagePROGRAF





Thermal Inkjet desktop prints





Thermal Wide-format Canon imagePROGRAF paper and canvas

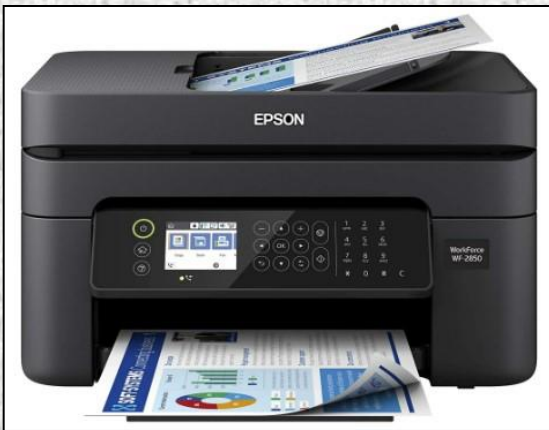
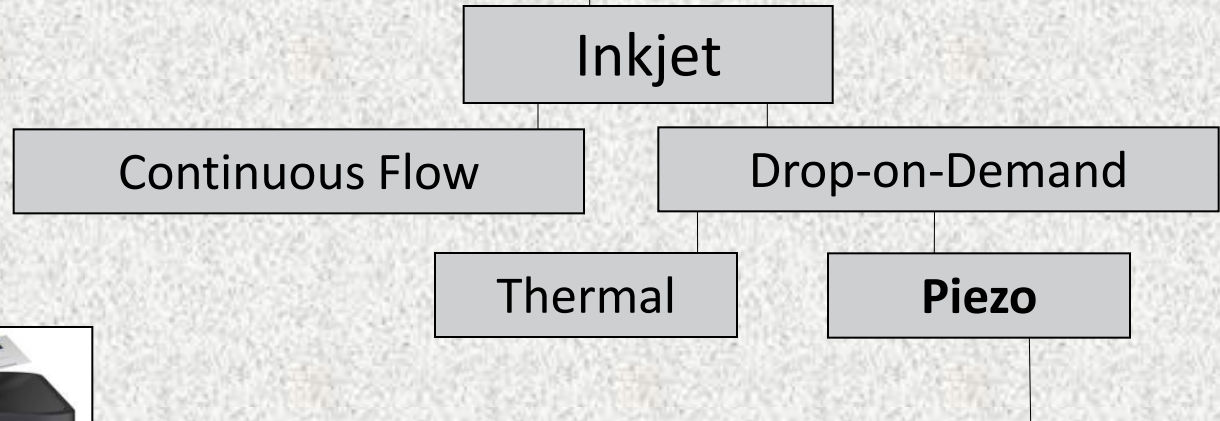


Thermal inkjet photo printer papers - clockwise

HP Matte Litho-realistic Paper (HP Z3100); HP Hahnemühle Smooth Fine Art Paper on Z2100; HP Professional Satin Photo Paper and HP Collector Satin Canvas on Z3100



# Digital Umbrella



## Aqueous Pigment Inkjet

### Desktop – Pigment Ink

- Also called Piezoelectric
- Epson, Brother



### Large Format – Giclée quality

- Epson, LexJet, Ricoh

### Wide Format - Commercial Use

- Epson, LexJet, Ricoh, Roland, Mimaki





Surface sensitivity of Epson desktop inkjet printer on porous paper



HP Z-series  
Heat tolerant

Epson Wide-format  
Heat tolerant

Heidelberg Press  
NOT heat tolerant

# Digital Umbrella



Epson SC-S60670 Eco-Solvent

**Inkjet**

**Drop-on-Demand**

**Thermal**

**Piezo**

**Solvent**



~~Giclée~~

## **Solvent Inkjet - Wide Format**

Eco-solvent inks = waterproof, durable and resistant to UV

Digitally printing up to 10' wide

For commercial use and signage

Interior and exterior with no special coatings

- Epson, Roland, Mutoh





Roland VersaCAMM solvent inkjet 56" wide format

**Photo  
Surface Scuffing**







Mounted plaques on Railroad Museum Timeline





Café wall solvent on MDF



Banners

Océ Arizona solvent on mesh

# Digital Umbrella

**Inkjet**

**Drop-on-Demand**

**Thermal**

**Piezo**

**UV-Curing**

Mimaki UJV55-320 UV Curable Rollfed



## UV-Curing Inkjet

- UV light instantly cures ink, coating, adhesive
- Environmentally friendly
- For glass, acrylic, honeycomb, polycarbonate, ACM
- Canon, LexJet, HP, Ricoh





Printing to flexible media as  
Product labels, window  
décor, vehicle wraps...

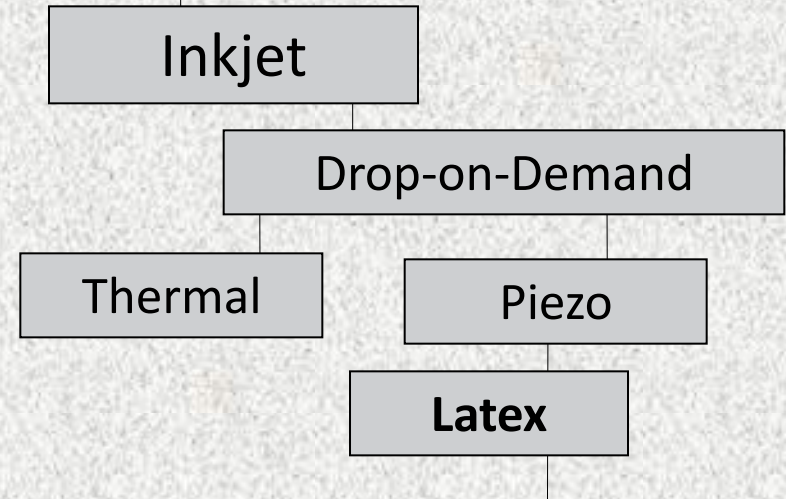




# Digital Umbrella



HP-Latex 1500



## Latex Ink - Large Format

- Aqueous pigment ink, lightfast
- Scratch, smudge & water resistant, indoor/outdoor
- Forced airflow to cure under radiant heaters, ready-to-use
- HP, Ricoh



## Resin/Latex

- Designed for vinyl and flexible signage (Tyvek)
- Roland, Epson



Lightbox, wall décor...





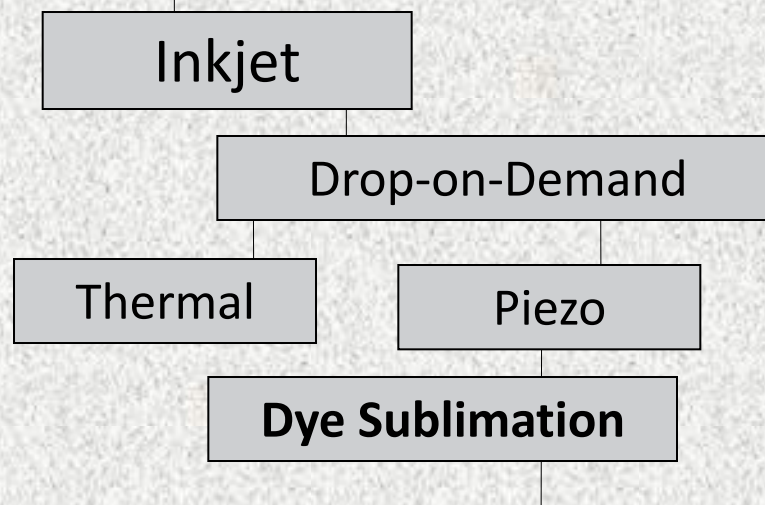
Osmond Sign – Latex Print



# Digital Umbrella



RolandTexartRT-640



## Dye Sublimation Inkjet

- Direct printing process (replaces screen printing)
- Requires heat setting
- Permanent and washable for polyester textiles
- Epson, Mimaki, Mutoh, Roland

## Direct Printing

- Uses dye inks for silk, cotton, wool
- Requires pre-treatment, washing & post-treatment



# Grand Format Dye Sublimation

Printing on cotton and polyester-based fabrics with Pigment-based dye sublimation and direct-disperse inks is growing in wall decor.





## Dye Sublimation on Metal Plate

*Sentry West, 24" x 48"*

Anita Jesse, artist



## Dye Sublimation on Canvas

*Solitude, 24" x 24"*

Anita Jesse, artist



# PPFA PRINT 2017-18

## *Sun Dappled II*

Created by Wild Apple Studio  
Published by Wild Apple Graphics

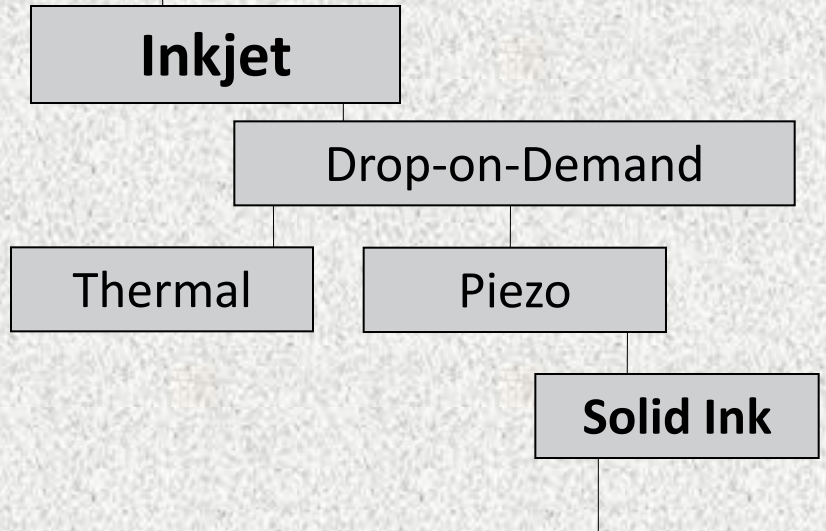
- Metal plate 6x6"
- High gloss finish on Chromalux
- Epson dye sublimation printer
- Dye inks transfer image to paper
- Applied to the Chromalux panel
- Treated to receive the dyes
- Put flat into a heat press @ 400°F
- 80 psi for 2 minutes
- Printed by Northwest Art + Frame



# Digital Umbrella



Xerox Versalink C620



## Solid Ink/Phase Change Inkjet (1962)

- Wax based ink sticks, 150°F+ melts ink
- Feel the edges of the ink, may soak through
- Commercial graphics, brochures
- Being phased out of use
- Xerox



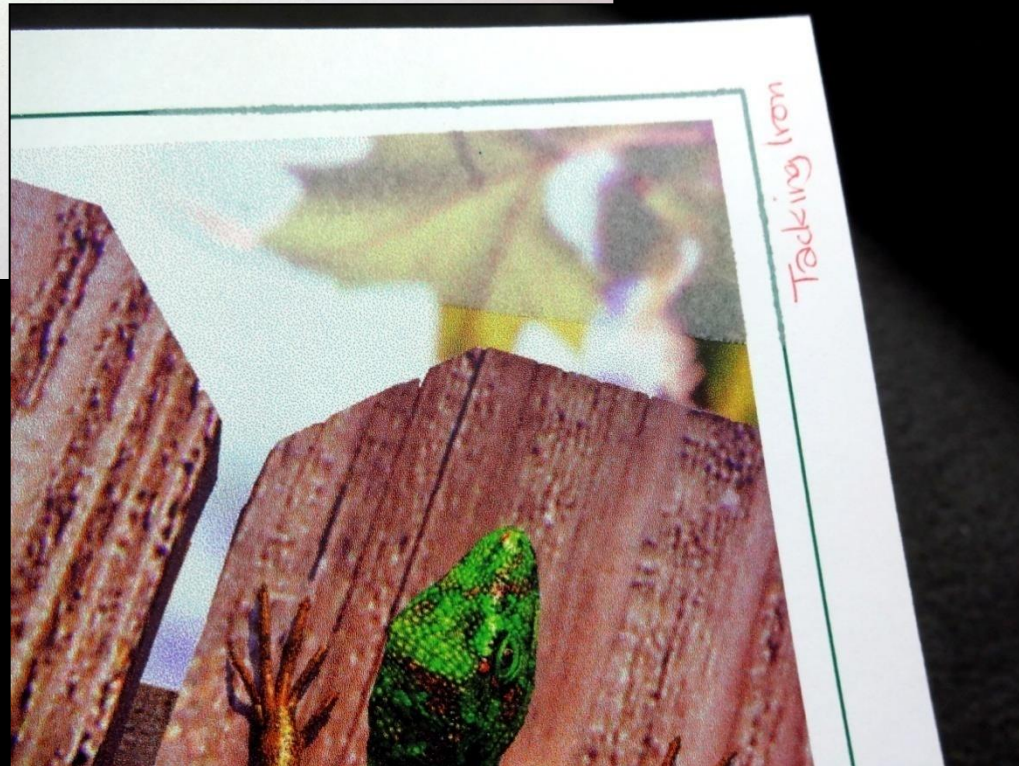
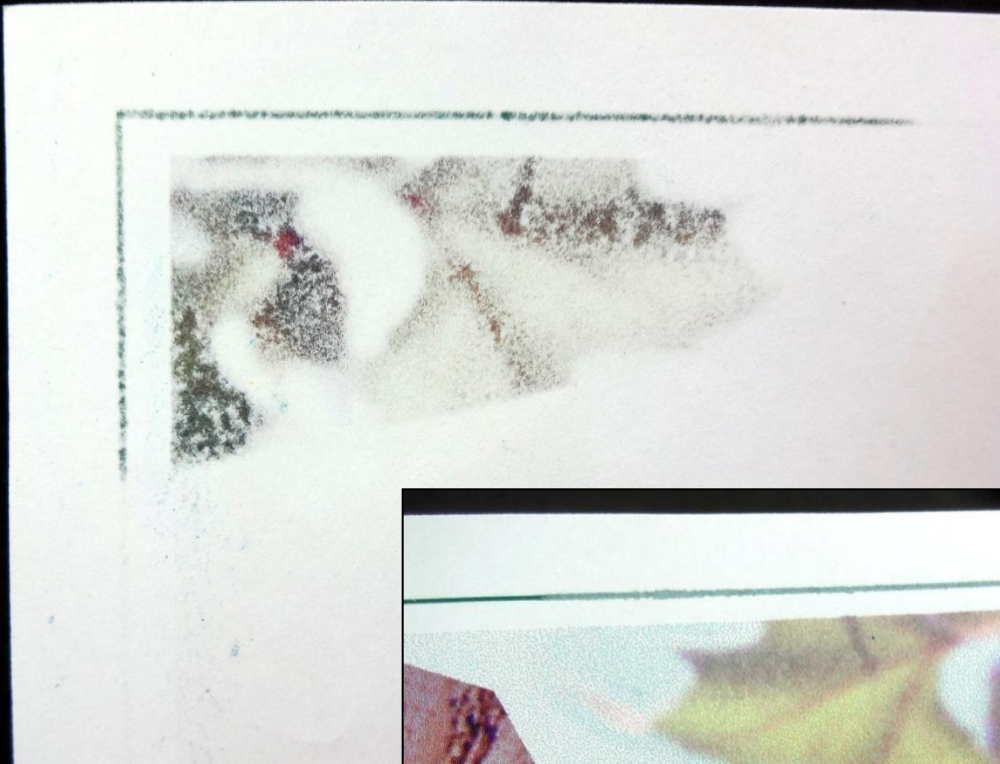




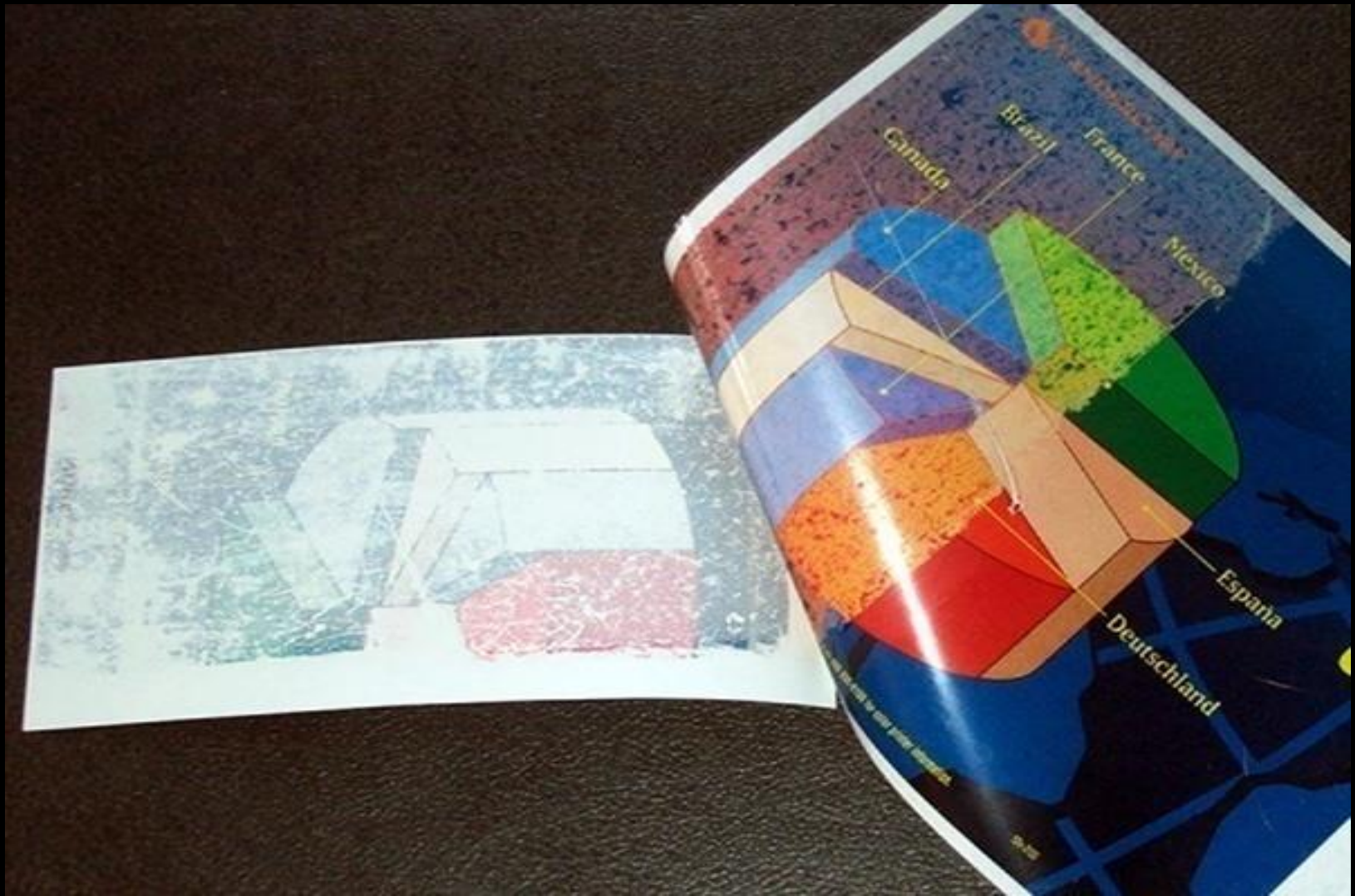
Solid Ink – Phase Change Inkjet  
Note faint image transfer on release paper

## Solid Ink

Even 150F temp, short duration HA board will melt inks and soak through.







## Solid Ink – Phase Change Inkjet

Major image melt and transfer from transparency to release paper

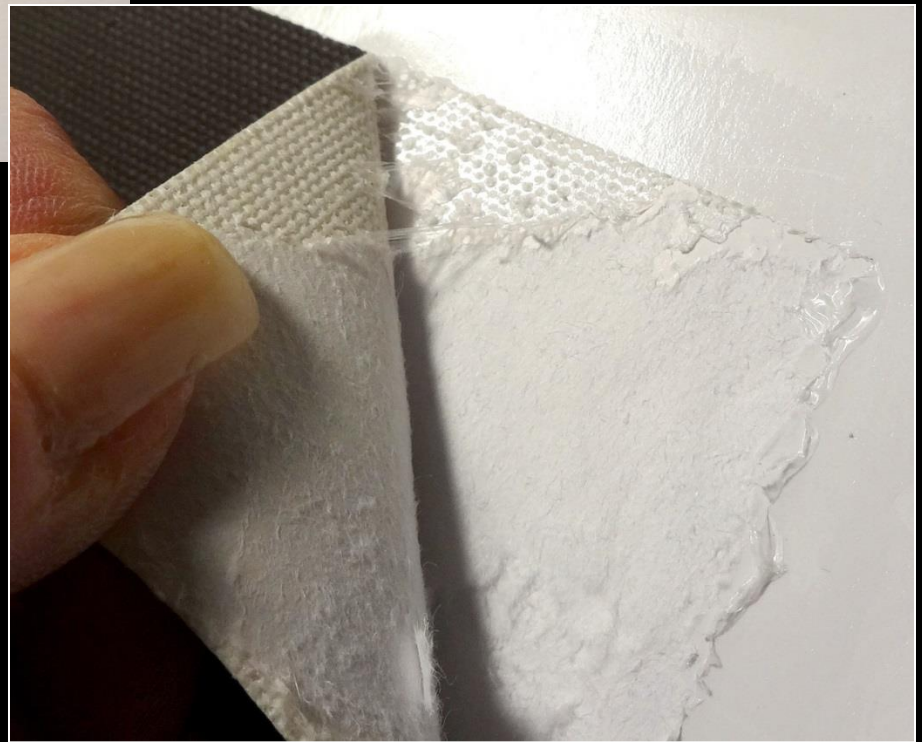
# Mounting Digitally Printed Items





Tear strength should be aggressive enough to rip the surface paper or mount when pulled

Better bond, but not aggressive enough for true tear strength.



# Mounting Digital Canvas and Photos

- 1) Avoid heat and pressure damage.
  - 2) 150°F is too hot for some digitals.
- 

## **Gilman MountCor/MountCor Canvas**

- 130°F lowest temperature available
- Safe for ALL digitals

## **High Tack P-S with Roller Laminator**

- Commercial PSA boards or In-house boards
- Drytac, D&K, Coda, Neschen Gudy...



# HA Board Comparisons

**High Temperature = 180°F**

Bainbridge HAF

**Medium Temperature = 150°F-160°F**

SpeedMount, KoolTack, Gilman InSite

**Low Temperature = 130°F**

Gilman MountCor

MountCor Canvas

**Reversible Board = 150°F-160°F**

KoolTack Preserve (100% Reversible Board)

# When in doubt...Go Cold

## Cold Mount Materials

Manual PSAs

Low

Medium

High tack

Roller Laminators

High tack PSAs

Any substrate



Drytac JM26

# HA-PSA-Film-Wet Adhesives and Comparisons 2024-2025

Board	Types of Art													Digitals							Board Info																														
	Lightweight Porous Paper	Coated Paper-mechanical	Coated Paper-vacuum	Heavy or Textured Papers	Asian Papers	Heavy Watercolor Paper	Original Art	Polyester Encapsulate	RC Photo-mechanical	RC Photo-vacuum	RA-4 Photographs	Creative Applications	Fabrics / Textiles	Raw Canvas	Digital Canvas	Electrophotographic Copy	Electrostatic / Laser Copy	Dye Sublimation	Thermal Transfer	Thermal (dye) Inkjet	Thermal (pigment) Inkjet	Piezo Inkjet	Digital Canvas	Time - after draw (actual)	Temperature	Permanent	Removable	Reversible / Preservation	Cure or Cool under weight	Neutral pH or stable & inert	Orange peel	High Density	Oversized Mounts	Manual	Rollers - cold	Roller - hot	Mechanical	Hot Vacuum													
This chart is a combination of manufacturers' suggestions, claims and tested mounting results between 2006-2008. Not all new release products since 2011 have been tested.  Copyright © 2011 Chris A. Paschke, CPF GCF Updated Copyright © 2014 Chris A Paschke, CPF GCF Updated Copyright © 2024 Chris A Paschke, CPF GCF																																																			
<b>Heat Activated Film &amp; HA Boards</b>													N	N	N																																				
Bainbridge SpeedMount	X	X	X					X	X	X												F		1-3m	F160-180	X	X											X	X												
Heat Activated Foam (HAF)	X	X	X	X	X			X	X	X	X	X	X	X			X	X		X	X	X		1-3m	F175-190	X	X											X	X												
Crescent Heat-Activated Fome-Cor	X	X	X	X	X			X	X	X	X	X	X	X			X	X				X	X	1.5-3m	F165-170	X												X	X												
Designs Ink Film 4000	X			X	x	X		X	X	X	X	X	X	X										1-4min	F180-200	X	X	X			X							X	X												
Gilman InSite Heat-Activated Foamboard	X	X	X	X	X			X	X	X	X						X	X		X	X	X		15s-1m	F160	X			X										X	X											
MountCor	X	X	X	X	X	x		X	X	X	X					X	X	X	X	X	X	X	X	30 sec	F130	X			X									X	X												
MountCor Canvas	X	X	X	X	X	X		X	X	X	X	X	X	X			X	X	X	X	X	X	X	1-3m	F130	X													X	X											
Kool Tack Preserve 100% Reversible	X	X	X	x		x	x	F	X	X	X											x		15s-30s	F150-160		X	X	X	x									X	X											
Drymount Foamboard	X	X	X	x	x	x		-	X	X	X		x	x			X	X		X	X	F		15s-45s	F150-160	X	X											X	X												
ACM Competition Plate	X	X	X	x	x	x		X	X	X							X	X		X	X			15s-45s	F160-165	X	X	x										X	X												
<b>Pressure-Sensitive (P-S) Boards</b>																																																			
	NA	NA				NA	NA				NA	NA												LT	HT	R																									
Bainbridge SA Foamboard	X									X			X			X	X	X	X	X	X	F		X		X	X	X	X					X	X	X															
Crescent PerfectMount Foam	X			X						X						X	X	X	X	X	X	F		X		X	X	X	X					X	X	X															
Drytac PS Gatorfoam	X			X	X			X		X	X	X	X	X		X	X	X	X	X	X	X	X		X		X	X	X	X	X	X	X	X	X	X	X	X	X	X											
Foam Board	X			X	X			X		X	X	X	X	X		X	X	X	X	X	X	X	X		X		X	X	X	X	X	X	X	X	X	X	X	X	X	X											
Gilman High Tack Foam	X			X	X			X		X						X	X	X	X	X	X	F		X		X		X	X																						
Gilman Resilient Align	X			x	X			X		X	F	F	F			X	X	X	X	X	X	F		X		X		X																							
Resilient Mount Soft Touch Graphics Board	X			x	A			X		X	F	F	F			X	X	X	X	X	X	F		X		X		X	X																						
Kool Tack InstaMount	X	x	x	X	X			X		X						X	X	X	X	X	X	F		X		X		X																							
<b>PSA Films (used with substrates of choice)</b>																																																			
								NA																LT	HT	R																									
Crescent Perfect Mount Film (flat, 2 release liners)	X			X						X	X					X	X	X	X	X	X	F		X		X	X	X	X																						
Gudy 831/Gudy V (rolled, sheer carrier)	X			X						X						X	X	X	X	X	X	x		X		X		X	X																						
Gudy 870/Gudy O (rolled, no carrier)	X			X						X						X	X	X	X	X	X	x		X		X		X	X																						
PMA (rolled, no carrier)	X			X						X						x	x	x	x	x	x	F		X		X		X	X																						
<b>Wet Glue</b>																																																			
	NA	NA						NA		NA	NA													M	W/D	CV			NA	NA																					
Decor All Purpose Mounting Adhesive #610 (PVA)	X			X	X	X		-		X	X	X	X	X							X	X		X	X		X		X																						
Decor All Purpose Mounting Glue #980 (paste)	X			X	X	X		-		X		X	X	X							X	X		X		X		X																							
Decor Fabric Mount Adhesive #1340 (PVA)	X			X	X	X		-		X	X	X	X	X							X	X		X	X		X		X																						
Decor Vacuum Mount Adhesive #3649 (veg starch)	X			X	X	X		-		X		X	X	X							X	X		X		X		X																							
Frank's Fabric Glue (PVA)	X			X	X	X		-		X	X	X	X	X							X	X		X	X		X		X																						

Legend: NA=Not applicable; F=Fail; x=Moderate bond; X=Good bond; X=Excellent bond and tear strength; N=Do not apply heat over 130°F  
 LT=Low tack; HT=High tack; R=Repositionable; M=Manual application; W/D=Wet/dry application (200°F/2-5 min); CV=Cold vacuum application



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See you next year!!



Chris A. Paschke, CPF GCF  
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