

Mastering Mounting: Digital Trends & Handling 2017

Chris A. Paschke, CPF GCF

Sponsored by The Gilman Brothers Company

West Coast Art & Frame, Las Vegas 2017

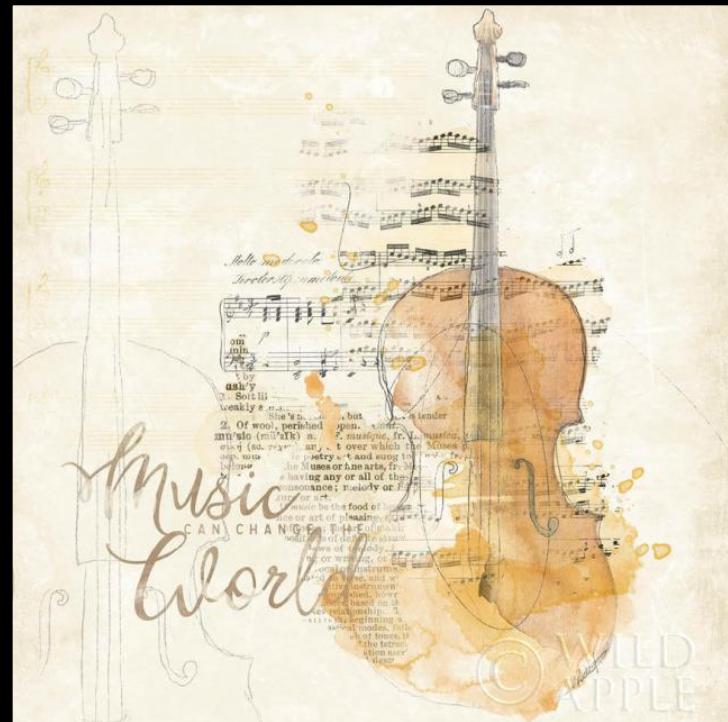
Digital Trends 2017

Art as Furniture



Dye Sublimation Inkjet
on flexible fabric







Dye Sublimation Inkjet on flexible fabric for home and wall décor



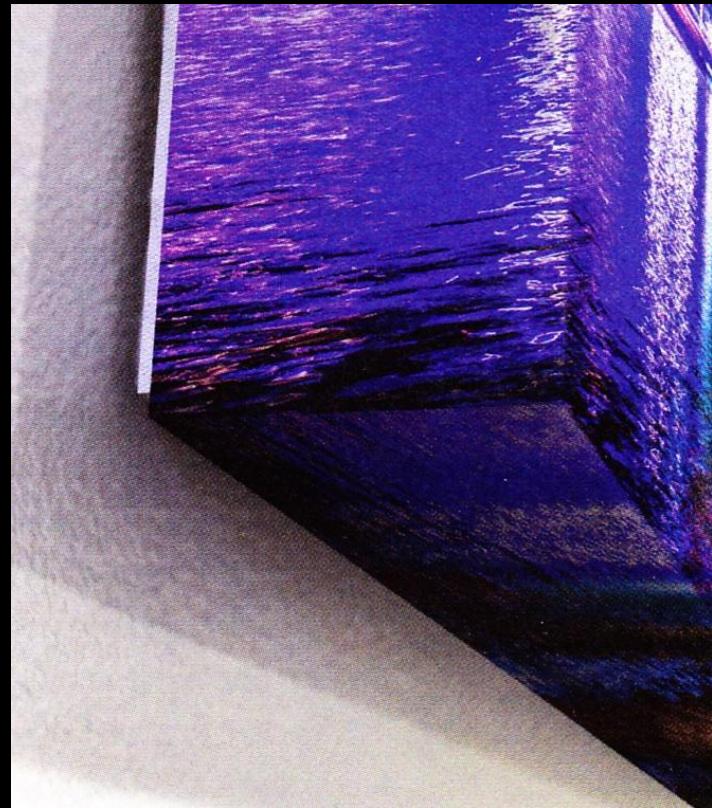
Art as Wallpaper
Solvent Inkjet



Canvas Express prints wall décor on
EnCore Embossed Canvas foam
folded to look like stretched canvas

Creative Art Applications

UV Inkjet





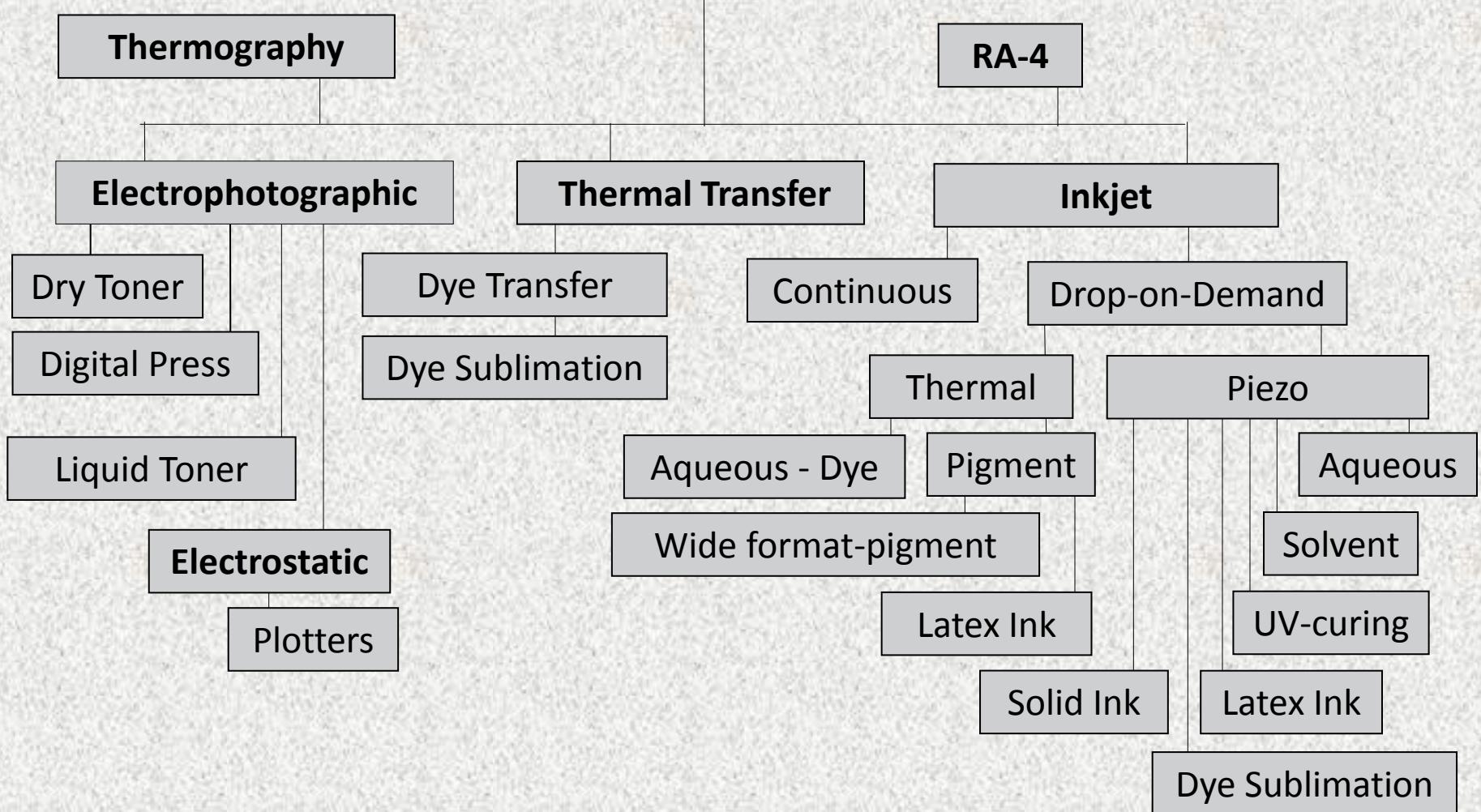
Art as Vehicle Wrap Solvent, UV Curing, or Latex Inkjet

Wrapped bus ad for Copenhagen Zoo



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

Digital Umbrella 2017



Thermography – Typographic Method

Direct Thermal

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

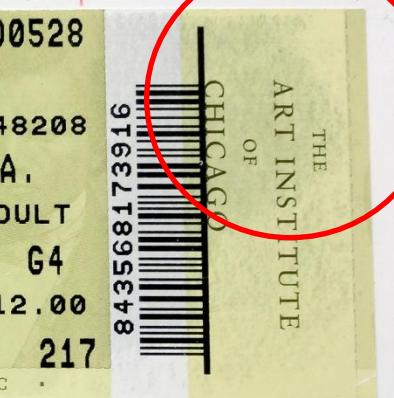
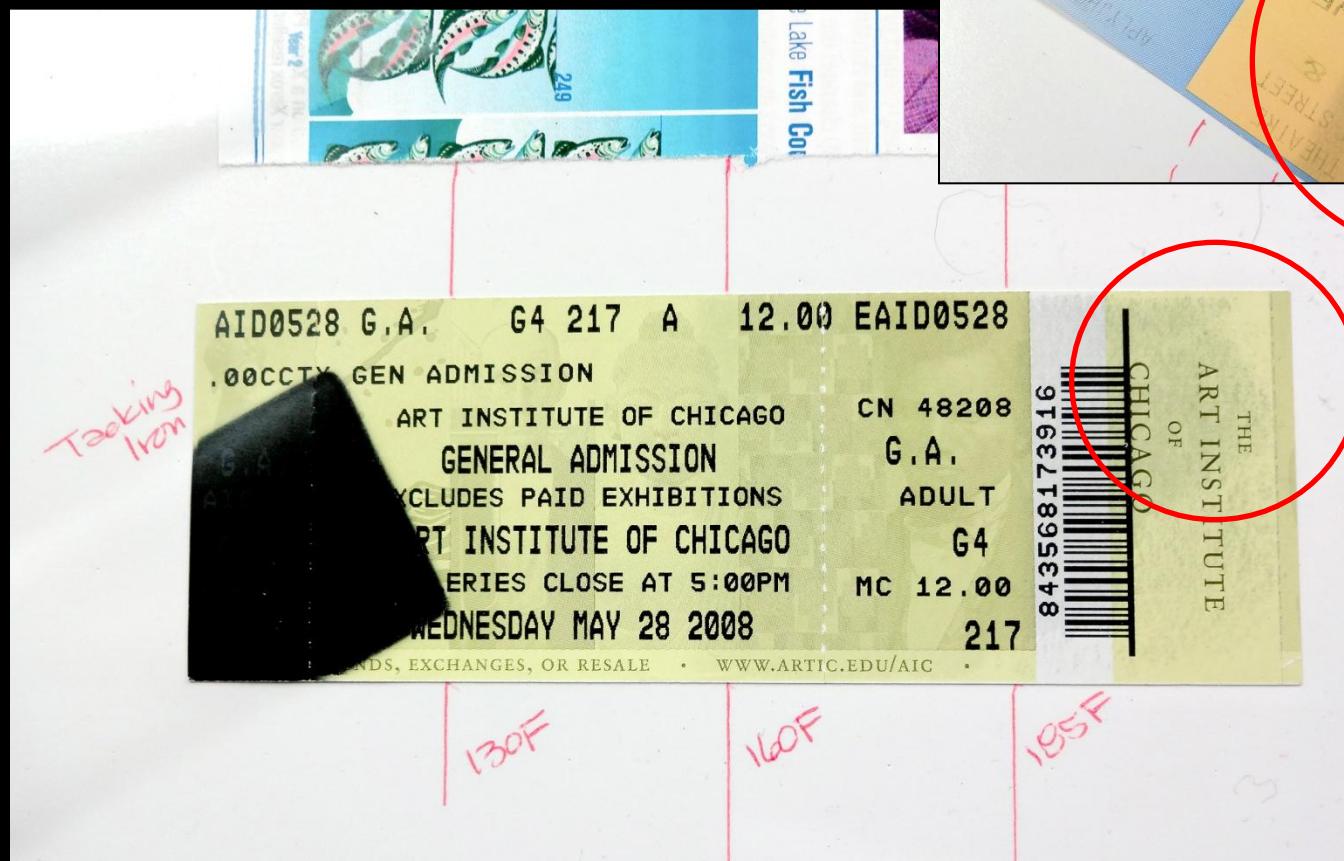
- Paper coated to change color
- No ribbon or ink transfer
- Older FAX machines and Sales Registers

Raised Print Process

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

1. Applies plastic resin thermographic embossing powder to substrate.
2. Vacuums excess powder from non-inked areas.
3. Heat-sets at 900F to 1300F.

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

Color Laser Printers

I3A Launches Digital Photo Preservation Website at www.savemymemories.org

Las Vegas, NV... The International Imaging Industry Association (I3A) launched its newest website at www.savemymemories.org. The site was created to educate and motivate people to take steps to protect their digital photos and to take the mystery out of preserving digital images by outlining the needs, risks and proper methodology for storing, cataloging and preserving the digital photo.

The new site features the results of I3A's recent Consumer Photo Preservation Initiative, which industry leaders collaborated to investigate the issues and develop solutions for preserving against the accidental loss of consumers' digital photos. The site explains:

- How to store and care of various methods and media; and
- Tips for organizing photo collections to make it easy to locate individual photos in the future.

"Digital technology has shaped our lives, preserving precious memories of people, places and events, but the need to safeguard our visual heritage today, and in the future, is as important as ever," said Lisa Walker, I3A president. "Our members have stepped up to show consumers what is needed for preparing and preserving digital photographic memories for years to come."

Using a "coachable" approach, the site walks visitors through the process of digitizing photos, organization around sections titled Learn, Share, and Discover. Additional information is also included or linked to the site will be updated, and I3A welcomes feedback from consumers and industry members. Companies participating in the initiative include: Kodak, HP and Xerox.

Standards & Initiatives

I3A Initiative Process

Today

- I3A serves three active technical committees, which develop standards, review administrative demands and international committees with continued input around the world.
- I3A's technical committees encompass all aspects of imaging, from traditional print imaging to recycling of photographic materials and more. To date, I3D standards on imaging.

As the pace of technological change continues to accelerate, and we become more aware of the need for, and importance of, standardization of products, services and systems, I3A is the leader in development of standards in the industry association worldwide.

I3A served for many years as the Administrative Secretariat for the International Standards Committee. All standards developed by the International Standards Committee were converted to I3A Image Technologies Committees in 2001.

I3A standards are approved using an I3A-accredited I3A standards committee, approval by TC committee, management board, resolution of our Management Board, and final I3A standards committee, approval by TC committee, approval by I3A management board.

New Ideas, Technologies, Printing & Finishing

FEATURE
By Elizabeth Cunningham

Black-and-White Lives: Inkjet and Photo Solutions

FEATURE
By Elizabeth Cunningham

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 people and 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 I3A 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 upload to an online service for storage.

Organized

You use a photo software program or create your own system based on folders and file names. It's need to be organized in a way that lets you find them when you want them. Learn more about how to organize your photos so you can easily find them when you want to use them. Want to create a place or use a method that will help you to locate them easily and quickly? Not to lose them.

3. Stay Informed

Watch the industry for technical developments, always use proven techniques.

Electrophotographic Color Copies – dry toner



Electrophotographic four color toner copies and heat damage

Digital Umbrella

Electrophotographic

Liquid Toner

Color Digital Presses – Photographs , Book Printing

- HP Indigo
- Mitsubishi
- Ricoh

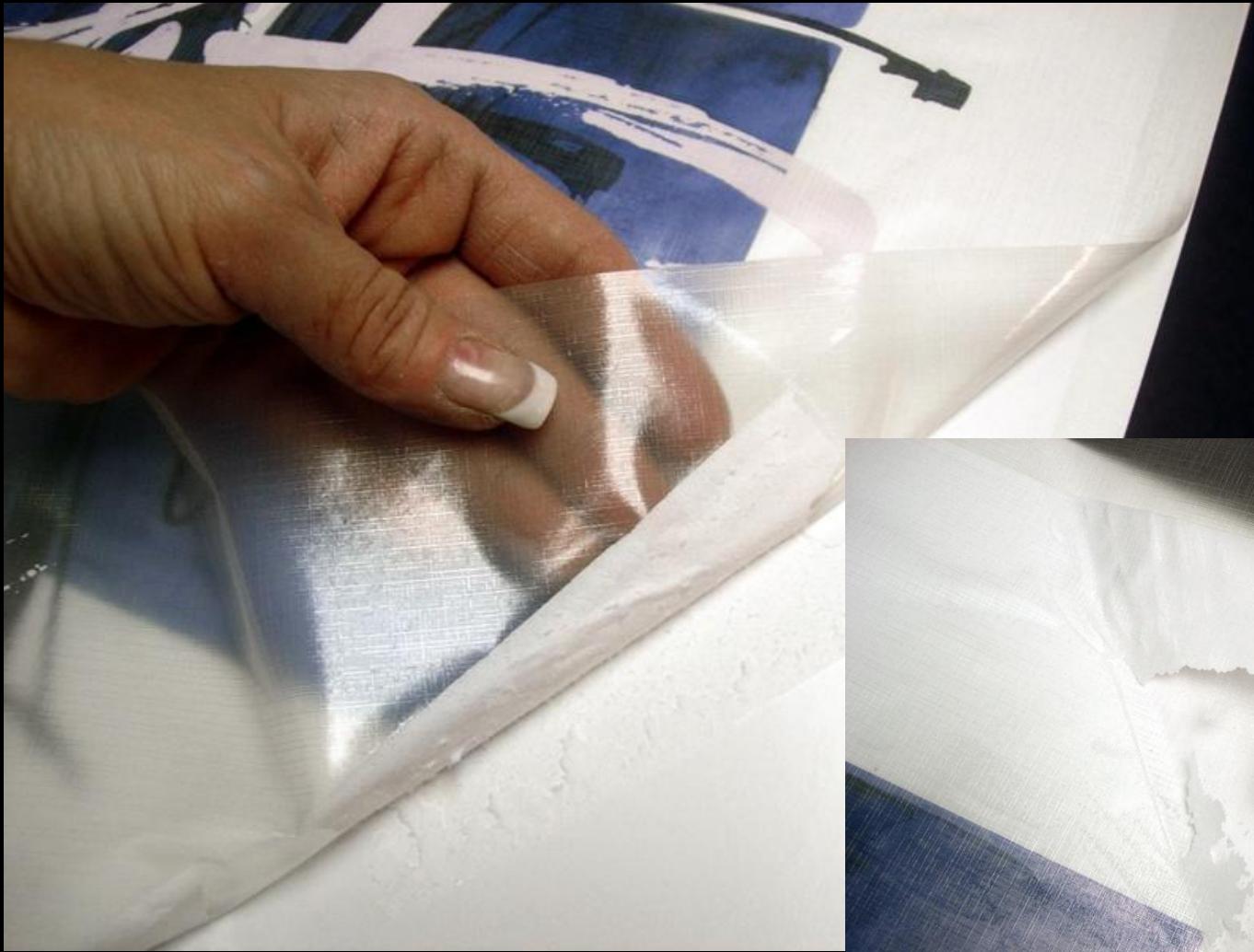
Offset Electric Digital Press

Heidelberg Press

- Open Edition Prints
- Laminate Sensitivities
- Digital Canvases



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

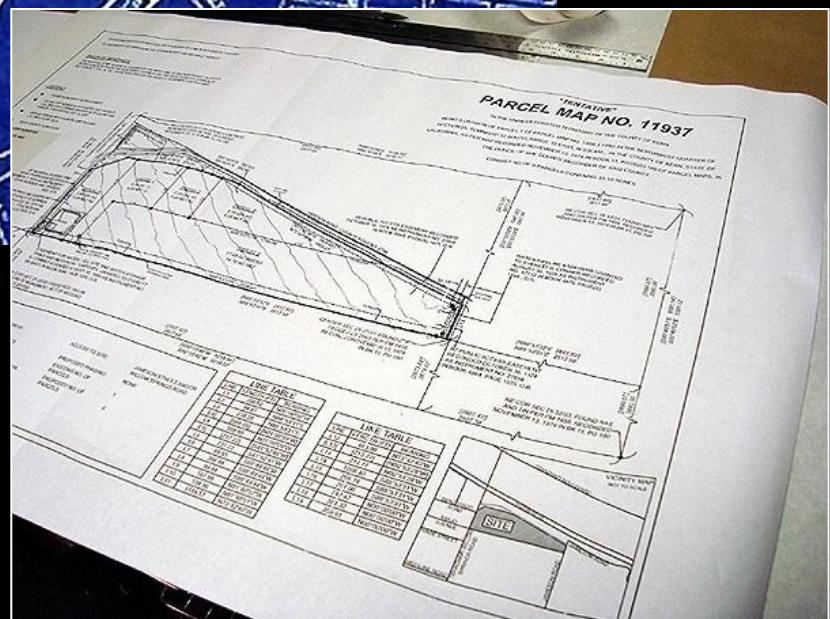
Large-format Plotters

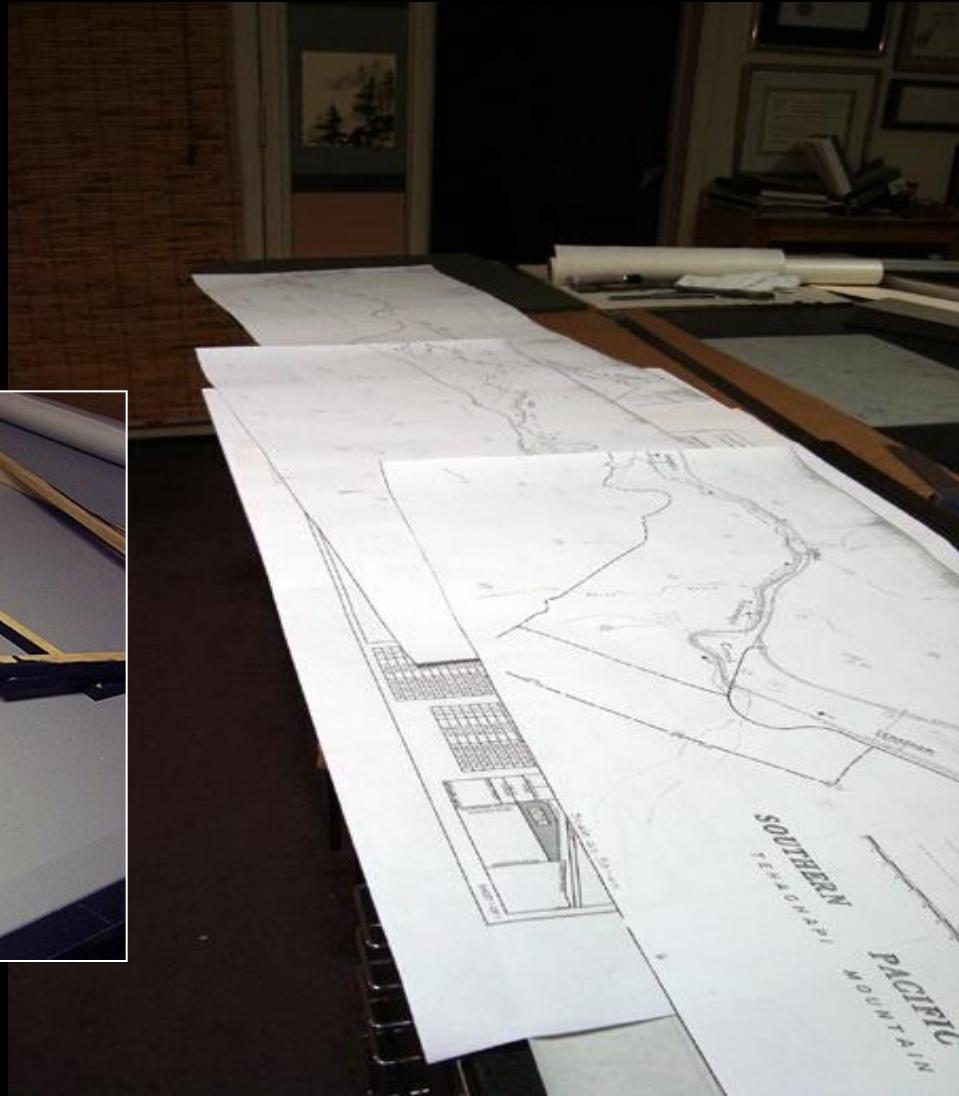
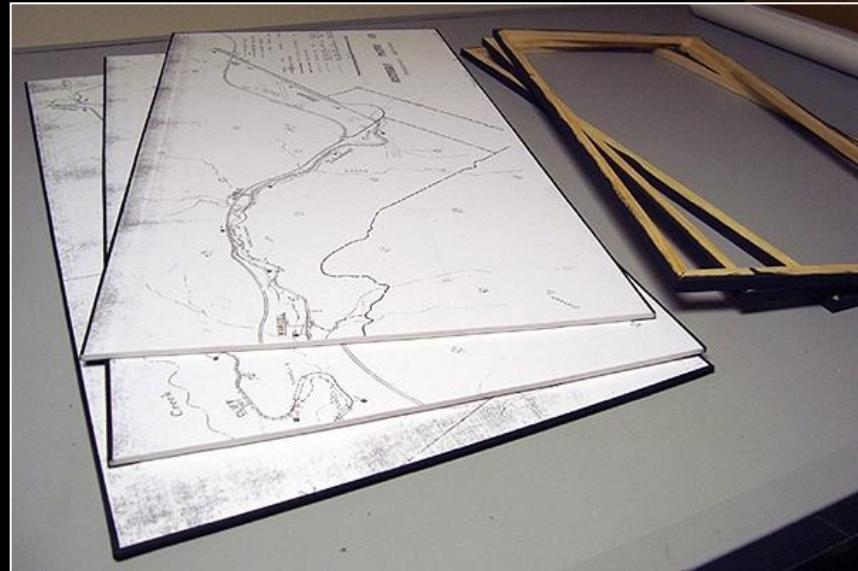
- Bluelines & Maps, Sepias, Diazo Prints
- Ricoh Laser Transfer System
- IBM



Traditional Blueprint

Electrostatic
Blueline





Electrostatic Dry Toner Plotter - Blueline



Blueline mounted and laminated with lifters

Digital Umbrella

Thermal Transfer

Dye Transfer

Kiosks

- Sony Picture Station
- Mitsubishi Electric
- Kodak Picture Maker

Minilabs

Dye Sublimation

Portables

- Portraits, Weddings
- Social & Sports events
- On-location imaging

Dye Sub Inkjet

Used for textile printing

- Embed into fabric
- Permanent & washable



Mitsubishi Electric dye sublimation kiosk prints

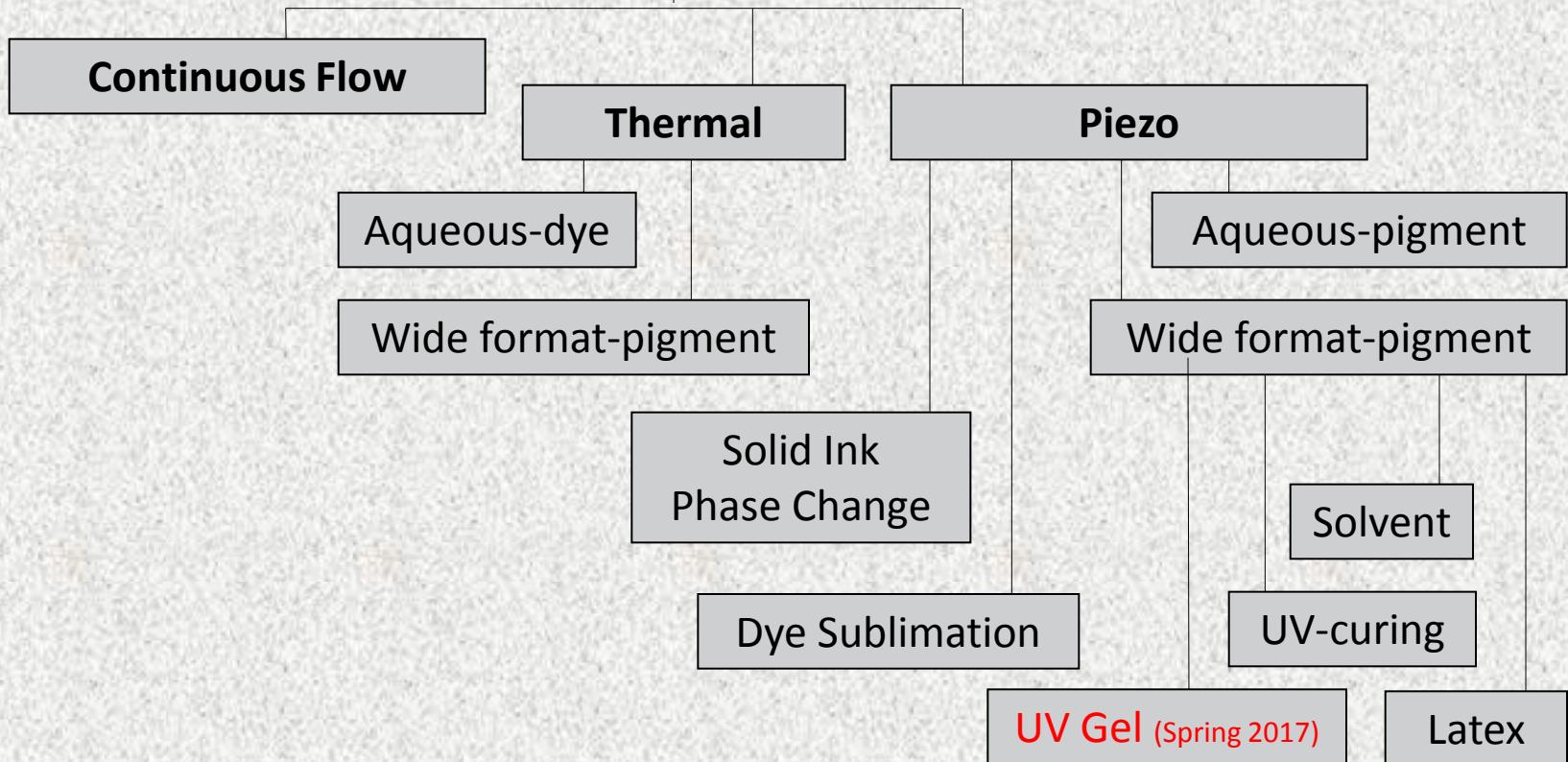


Cropped and bordered photos are an indicator of thermal transfer kiosks



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, Wide-format, Grand format

Ink - Aqueous, Solvent/EcoSolvent, UV Curing,
Latex, and Dye Sublimation



Fuji EU3081 Acuity **Rollfed and Flatbed** UV printers



Printer Size

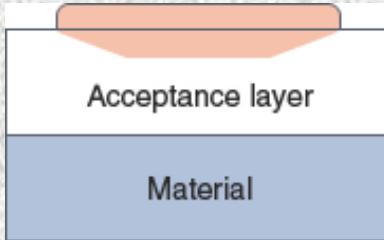
Desktop = up to 11x17"

Wide Format = 13x19" to 64"

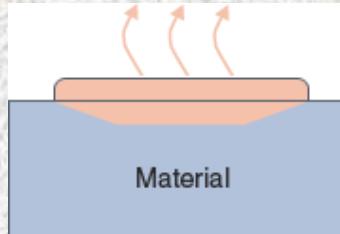
Grand Format = over 72" wide

Grand-Format building wrap
in Philippines

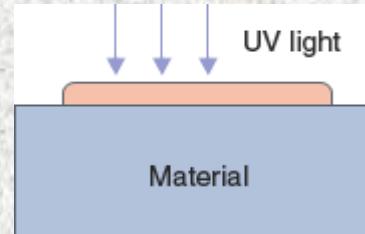
Comparison of Four Basic Inkjet Printers



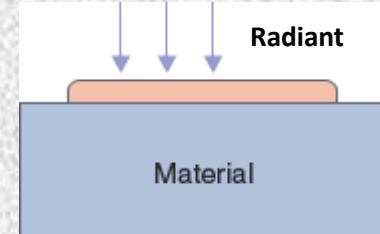
Aqueous Ink
has less odor and rich color, for indoor use of poster and fine art. The ink penetrates the media during drying, making compatible substrates limited.



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

All giclées are inkjet, but not all inkjet are giclée.

Inkjet 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, Colorspan, Canon, HP and Epson

Archival Inks

Dye-base Ink

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

Pigment Ink

- Excel in 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.

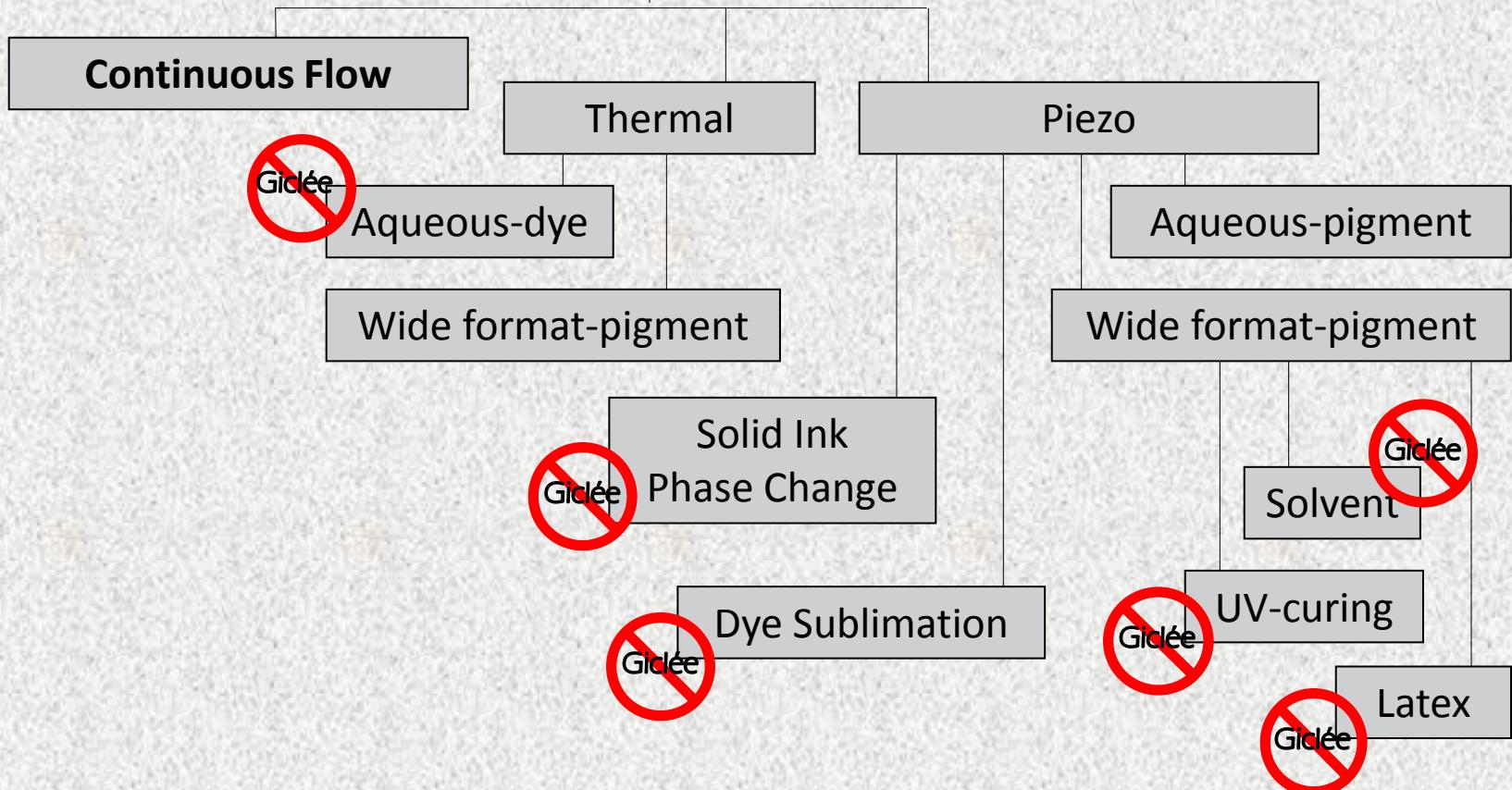
Is Solvent Inkjet Giclée Quality?

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

In 2015 many publishers use solvent, eco-solvent, UV and latex printers to produce canvases for wall décor.

And dye sublimation may not be far behind.

Digital Inkjet



Digital Inkjet

Continuous Flow

Giclée Fine Art Images

Digital, color calibrated, wide-format

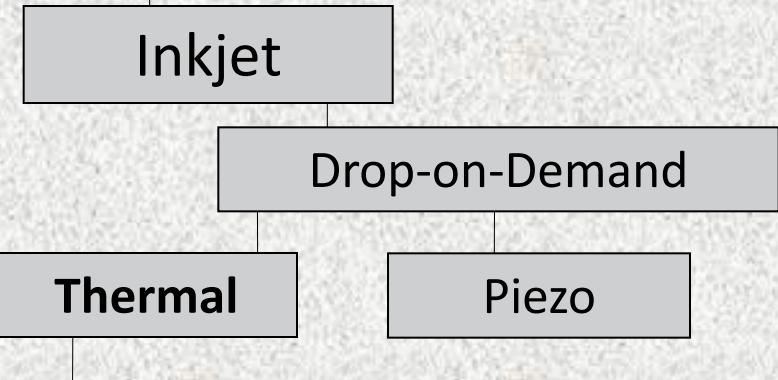
Print to Fine art paper, silk, canvas, bamboo, acrylic, aluminum

- IRIS – Scitex
- Epson
- HP Z-series



Continuous flow fine art inkjet

Digital Umbrella



Desktop Inkjet – Dye Ink

Plain paper, photo paper, light coated paper

- Canon
- HP DesignJet
- Lexmark

Large Format – Pigment Ink

Canvas, photo, film, polypropylene, Tyvek, textured & coated paper

- HP DesignJet 4500, 4500, Z series 3100, 6100
- Canon image PROGRAF iPF series
- Kodak Encad NovaJet



Wide Format – Latex Ink

- HP DesignJet 25500



HP Photosmart 8750

Professional Photo Printer

Thermal Inkjet desktop prints



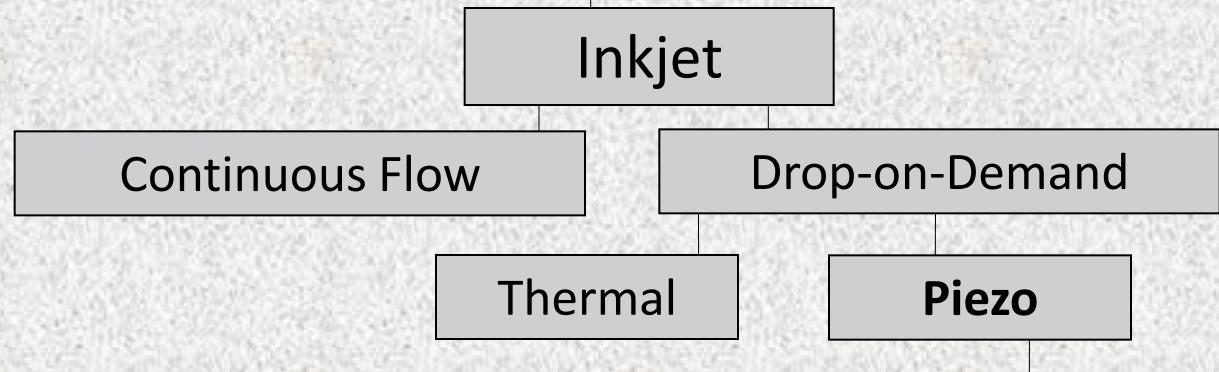
Thermal Wide-format Canon image PROGRAF paper and canvas



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



Desktop – Pigment Ink

Also called piezoelectric and micro piezo

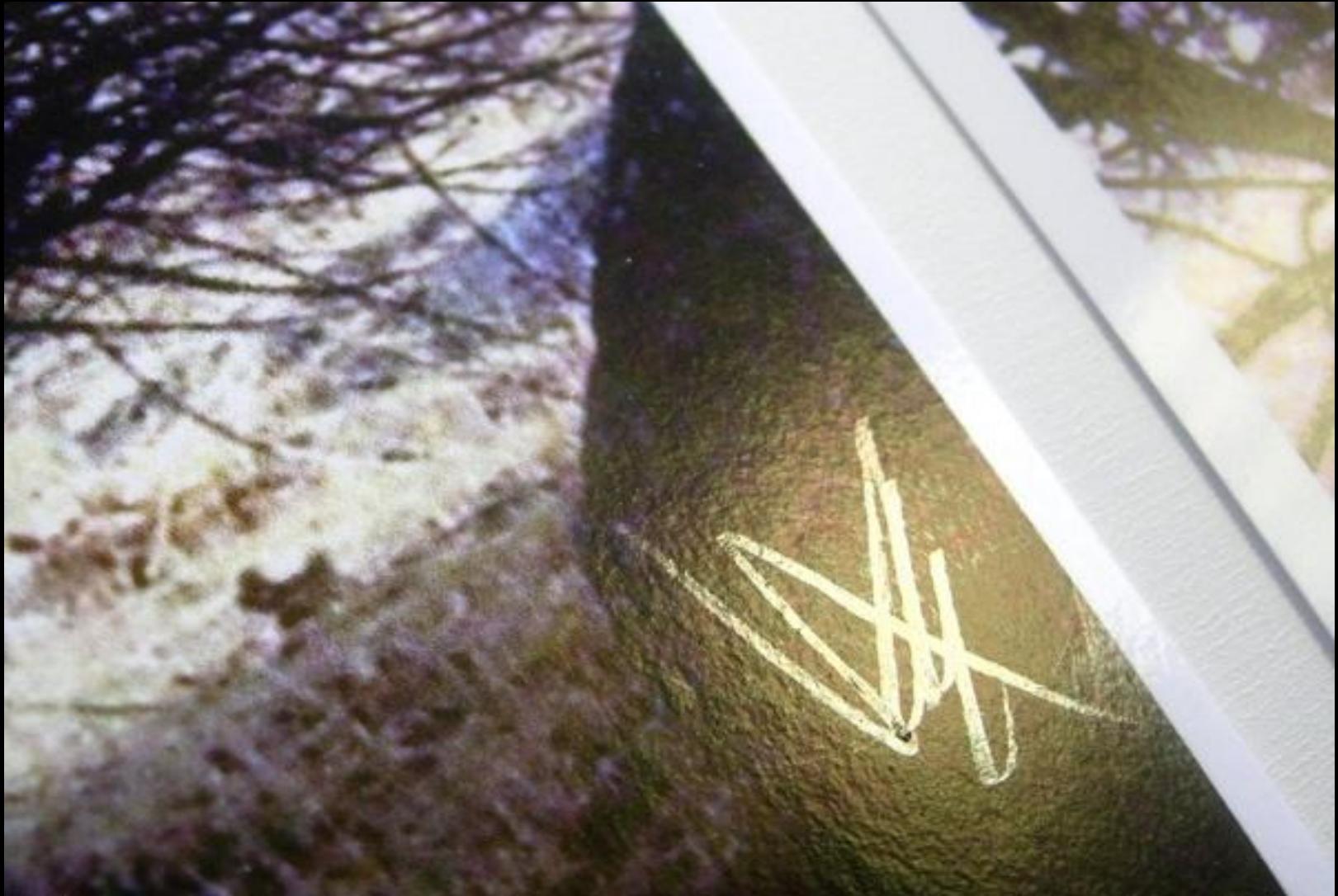
Wide Format – Giclée quality

- Epson Stylus Pro 9880 – fine art paper and photos
- Roland

Wide Format - Commercial Use

- Epson Stylus Pro 9900
- Mutoh Falcon II
- Mimaki JV4





Surface sensitivity of Epson desktop inkjet printer on porous paper

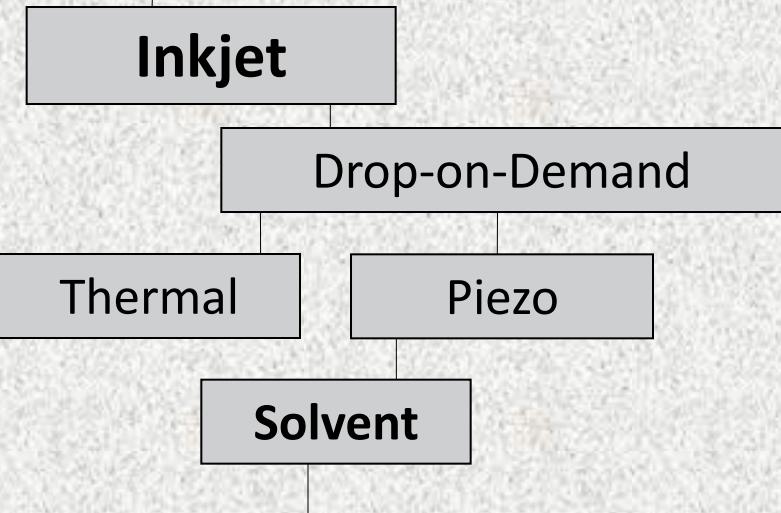


HP Z-series
Heat tolerant

Epson Wide-format
Heat tolerant

Heidelberg Press
NOT heat tolerant

Digital Umbrella



Wide Format Solvent Inkjet

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

Digitally printed canvases

For commercial use and signage

Interior and exterior with no special coatings

- Epson Stylus Pro GS6000, Epson SureColor S70
- Roland VersaCAMM
- HP Scitex LX600 (formerly HP DesignJet L65500)
- Mutoh ValueJet



Roland VersaCAMM solvent inkjet 56" wide format



Photo Surface Scuffing

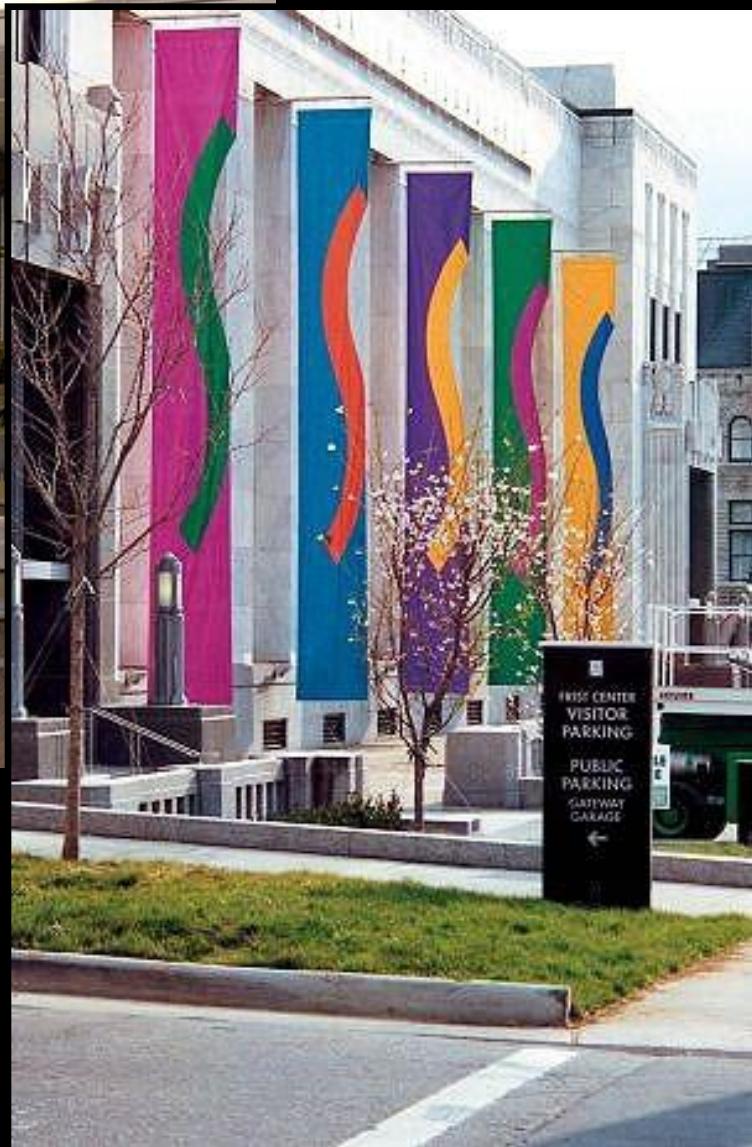




Mounted plaques on Railroad Museum Timeline

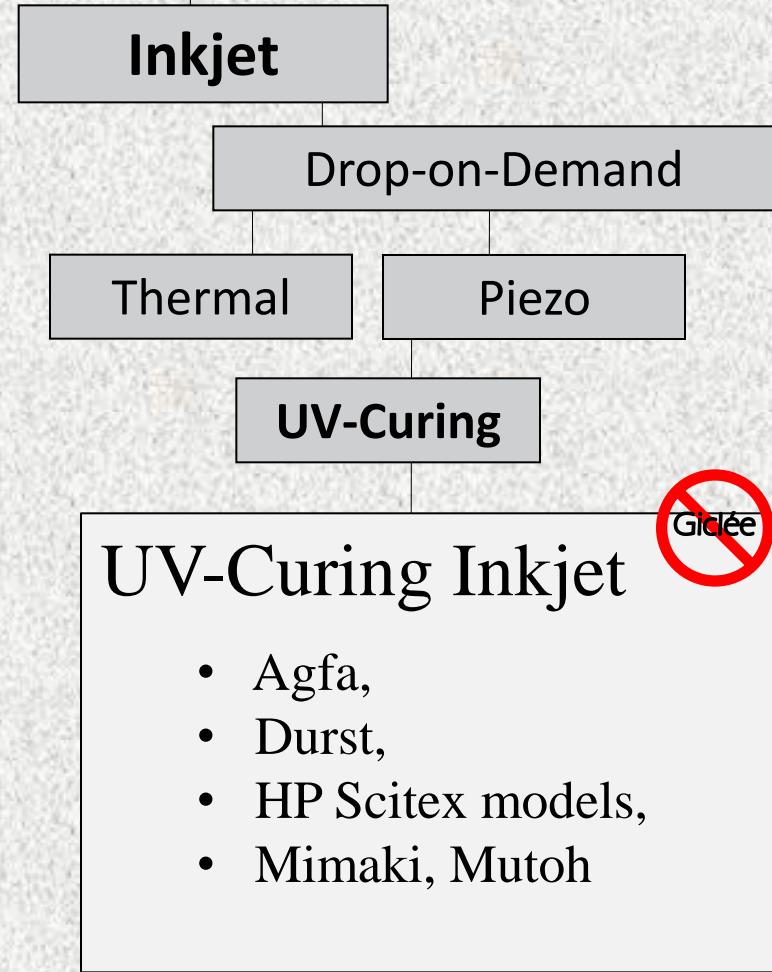


Café wall solvent on MDF



Banners
Océ Arizona solvent on mesh

Digital Umbrella



UV-Curing Inkjet

- high-intensity UV light instantly cures ink, coating, adhesive
- scratch resistant
- environmentally friendly
- for glass, acrylic, corrugated foam, polycarbonate & ACM
- for automotive, electronics, telecommunications, graphic arts, and converting
- for use on metal, glass and plastic

UV-Curing Inkjet

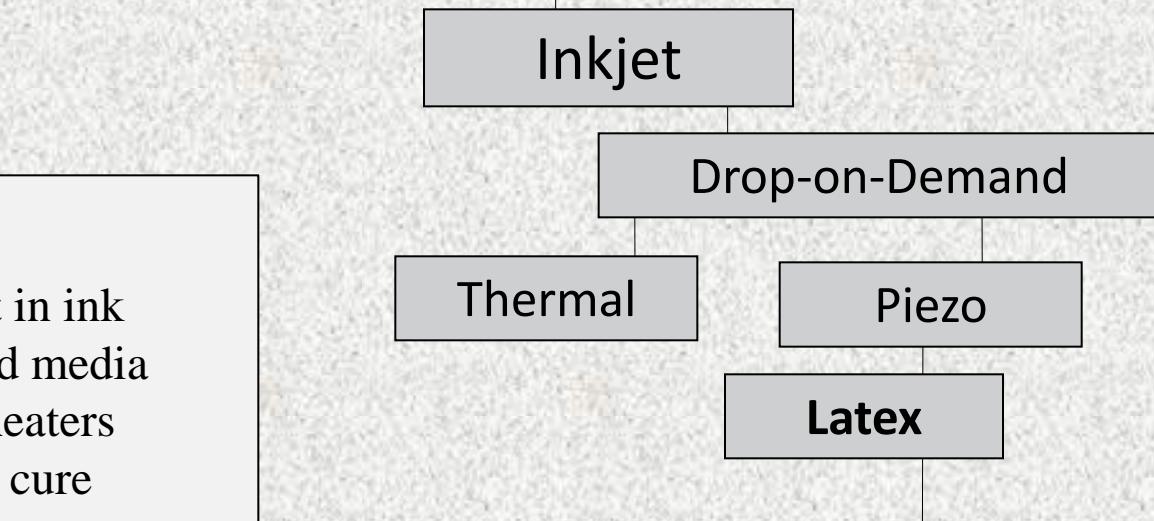
- Agfa,
- Durst,
- HP Scitex models,
- Mimaki, Mutoh



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



Digital Umbrella



Latex Inkjet

- aqueous pigment in ink
- prints to uncoated media
- internal radiant heaters
- forced airflow to cure
- lightfast
- ready-to-use
- for flexible signage (Tyvek)
- indoor and outdoor
- scratch, smudge resistant
- water resistant

Wide Format Latex Ink

- HP DesignJet L25500, L26500
- HP Scitex LX6001
- HP Scitex LX800 Printers
- Mimaki JV400-130LX,
- Mimaki JV400-160LX



Vinyl Banners and Ink

- **True Solvent Inks**

- King of banner inks
- Solvents bite deeply into the vinyl and provide a strong, durable bond.
- No further laminating or coating is needed.

- **Eco-Solvent and Low-Solvent Inks**

- Don't bond to vinyl media as well as true solvents.
- Good color and durability with lower levels of VOCs.

- **Latex Inks**

- Pigmented, water-based inks using aqueous-dispersed polymer
- HP claims overall durability that outperforms eco-solvent ink.
- Mimaki has recently introduced its own latex printing systems.

- **UV-Cure Inks**

- Sit on top of vinyl and use an adhesive to stick to the banner.

- **Aqueous Inks**

- Water-based inks cannot print directly onto vinyl banners.
- Coated banner media is more expensive than uncoated media.



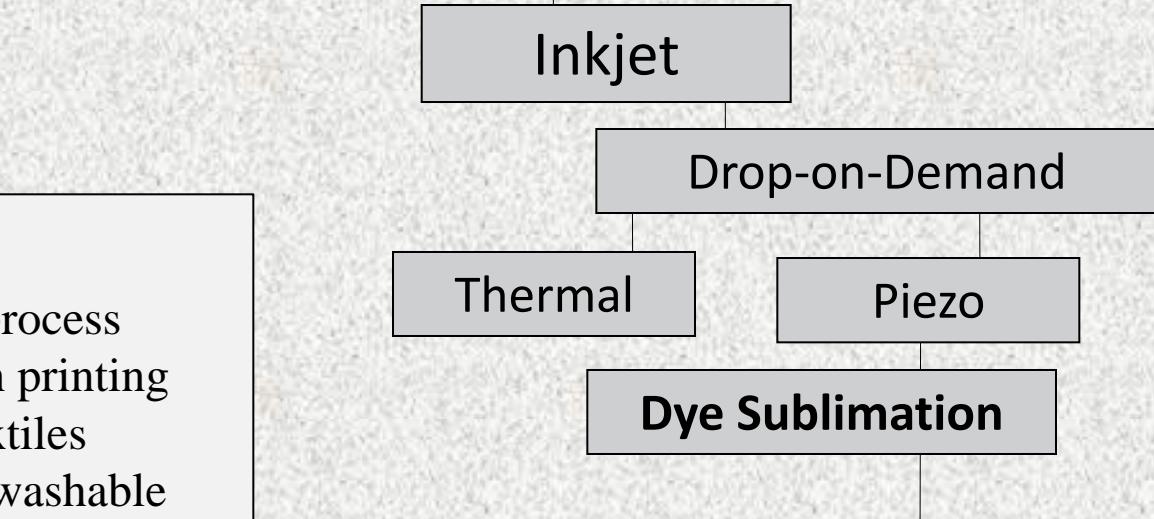
Lightbox, wall décor...



Osmond Sign – Latex Print



Digital Umbrella



Dye Sublimation Inkjet

- direct printing process
- replacing screen printing
- for polyester textiles
- permanent and washable
- requires heat setting

Direct Printing

- uses compatible dye inks
- for silk, cotton, wool
- requires pre-treatment, washing and post-treatment

Wide Format Printers (24-64")

- Epson SureColor
- Mimaki DS series
- Mutoh ValueJet



Grand Format Printers (>72")

- Agfa Graphics 126"
- Printer Evolution 126"

Grand Format Dye Sublimation

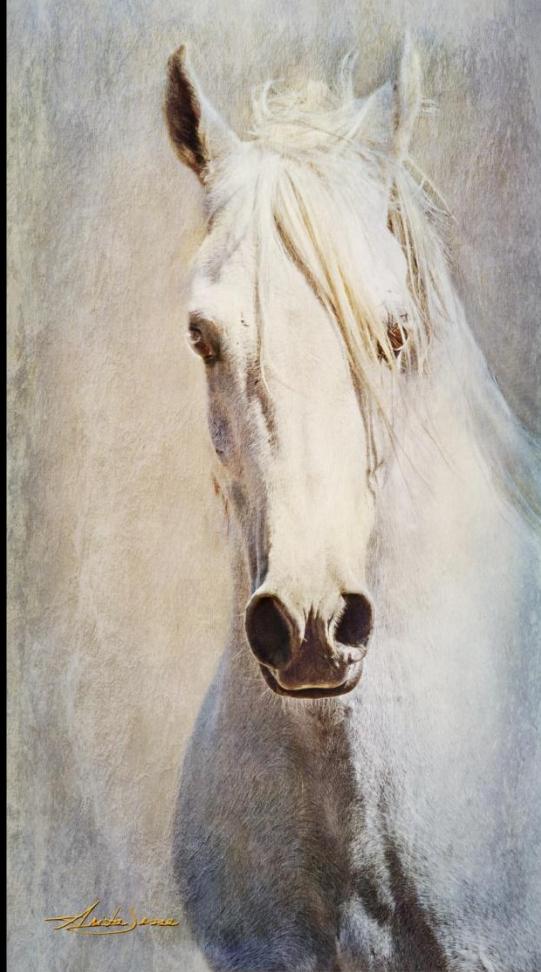
Printing on cotton and polyester-based fabrics with Pigment-based dye sublimation and direct-disperse inks is growing in wall decor.



Dye Sublimation on Metal Plate

Sentry West, 24" x 48"

Anita Jesse, artist



Dye Sublimation on Canvas

Solitude, 24" x 24"

Anita Jesse, artist



Dye Sublimation, 2017

History

- In 1957 French textile company discovered sublimation
- Under high temperature, dyes go to gaseous phase, never liquid.
- Late 60s it was used in early computer printers.
- Dye-sublimation printing is dominantly used for textile printing.
- Rivals UV for printing on 3D objects like mugs, phone covers...

Transfer Process

- A dye-sublimation ink consists of a solid pigment or dye as liquid.
- An image is printed onto a transfer paper.
- Paper then contacts a polyester fabric using heat and pressure.
- Solid dye sublimates into the fabric, solidifying onto the fibers.
- The image physically becomes part of the substrate.
- Allows for more detail, sharper edges and vivid colors.
- For graphics, high-end fashion, sports apparel, interior design, promotional products, interior signage

Current direct dye-sublimation

- Prints directly onto a fabric without a transfer sheet.
- Deeper dye penetration limits detail and color.

PPFA PRINT 2017-18

Sun Dappled II

Created by Wild Apple Studio
Published by Wild Apple Graphics

- 6x6" Metal plate
- 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 @ 400F
- 80 psi for 2 minutes
- Printed by Northwest Art + Frame
- Available at PPFA bookstore,
PFM bookstore and online





2015 New York Fashion Week *Digital Coutour Event*

- Dye-Sublimation Inkjet
- Epson offered SureColor F-series
- 11 designers for their collections
- Leonor Silva, ESOSA, and Maggie Barry



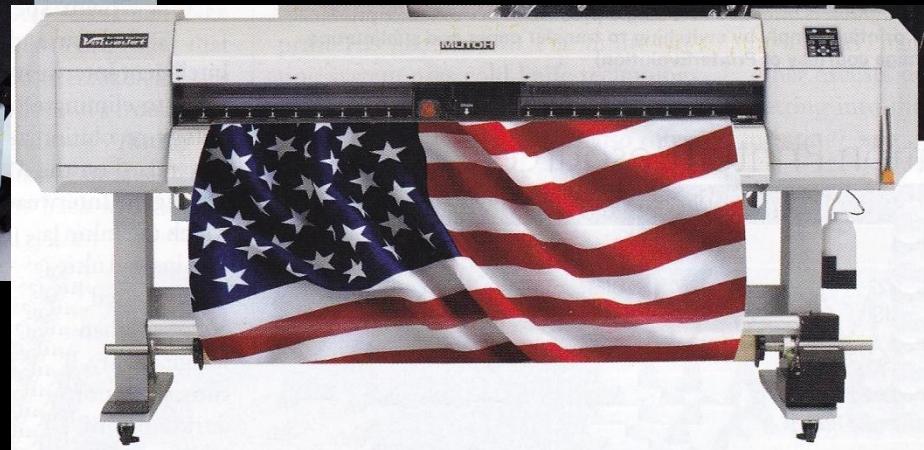


Printer Evolution Eos126DS

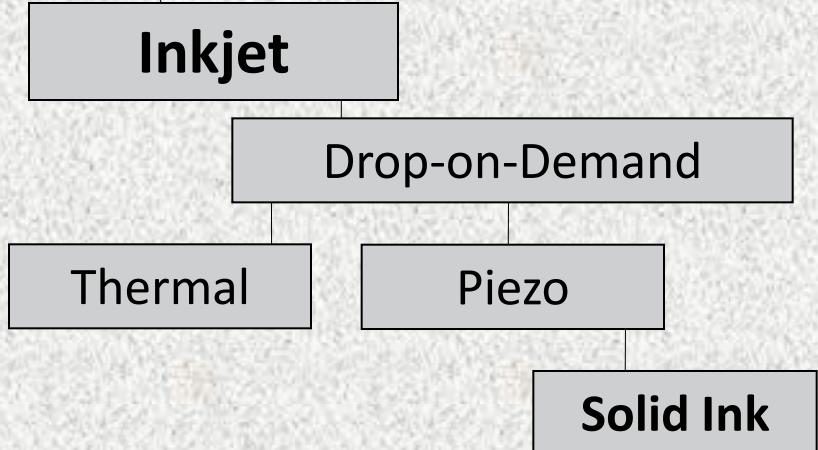
Epson SureColor F7170



Mutoh ValueJet



Digital Umbrella



Solid Ink

- wax based inks
- can feel the edges
- 150F + will melt inks
- inks may soak through
- release paper will
to new projects
- commercial applications

Solid Ink/Phase Change Inkjet

- Tektronix
- Xerox Phaser Series

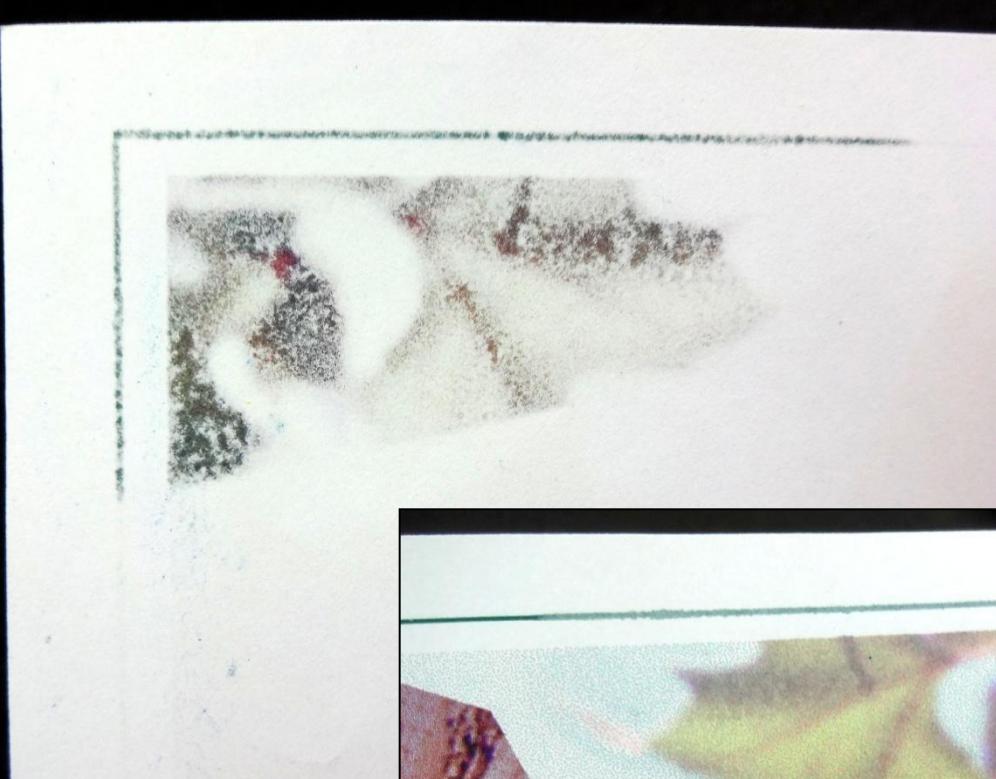


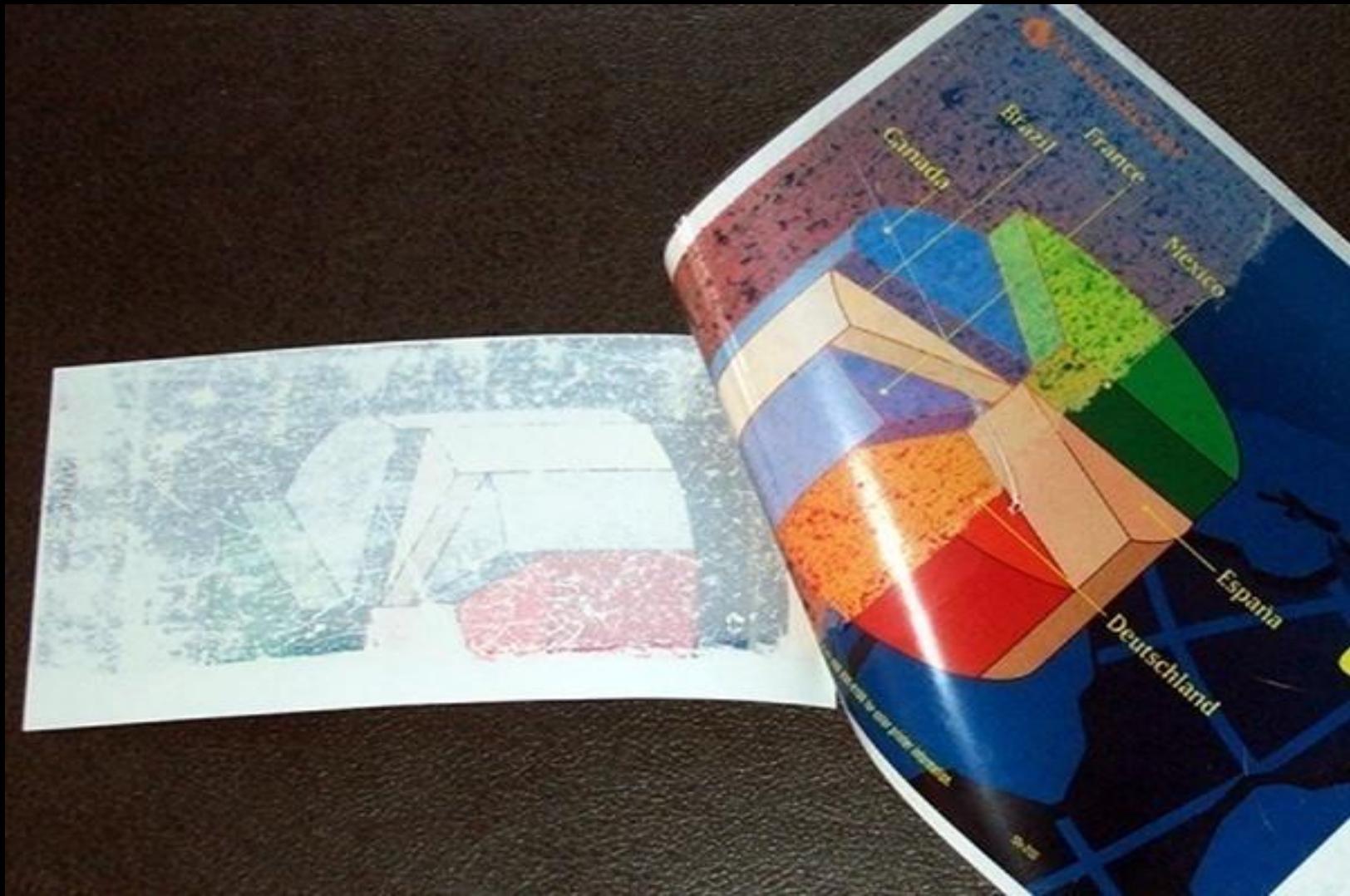


Solid Ink – Phase Change Inkjet
Note faint image transfer on release paper

Solid Ink

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



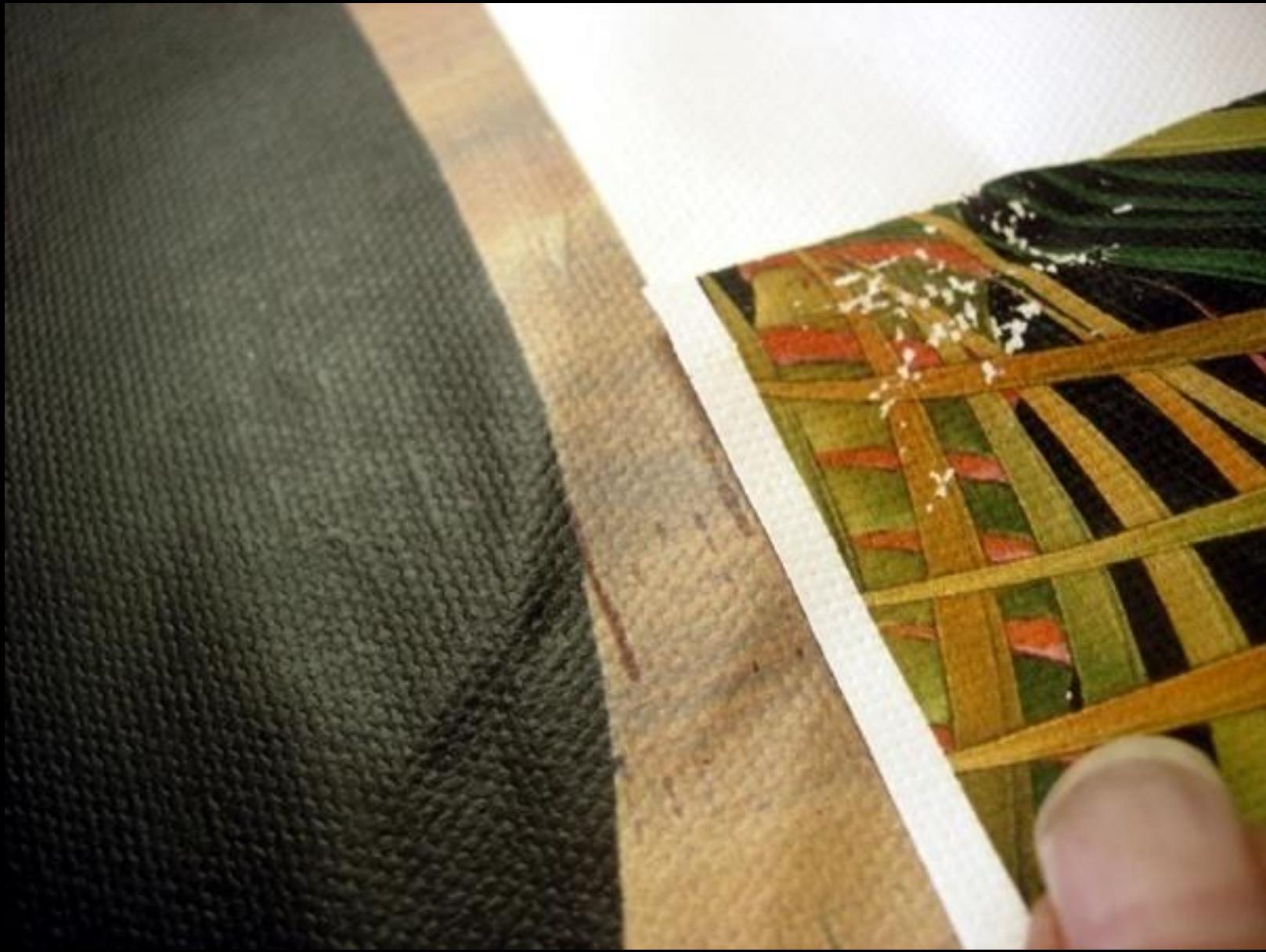


Solid Ink – Phase Change Inkjet
Major image melt and transfer from transparency to release paper

Digital Printed Canvas



Heidelberg Digital Press – liquid toner on canvas (L) Inkjet (R)



Wide format inkjet (L) does not flake, digital press toner (R)



Epson 7800 Piezo Inkjet on Magicl e  Cotton Matte Canvas
for pigment ink; Poly/Cotton Canvas for dye/pigment; and
Poly/Cotton Matte Canvas for pigment

Start of Test 2006
Why do they sag?



Faded by 2011





Shear strength may
be fine for some mounts,
but not all.

Test for digital canvas
adhesives PS, HA and film,

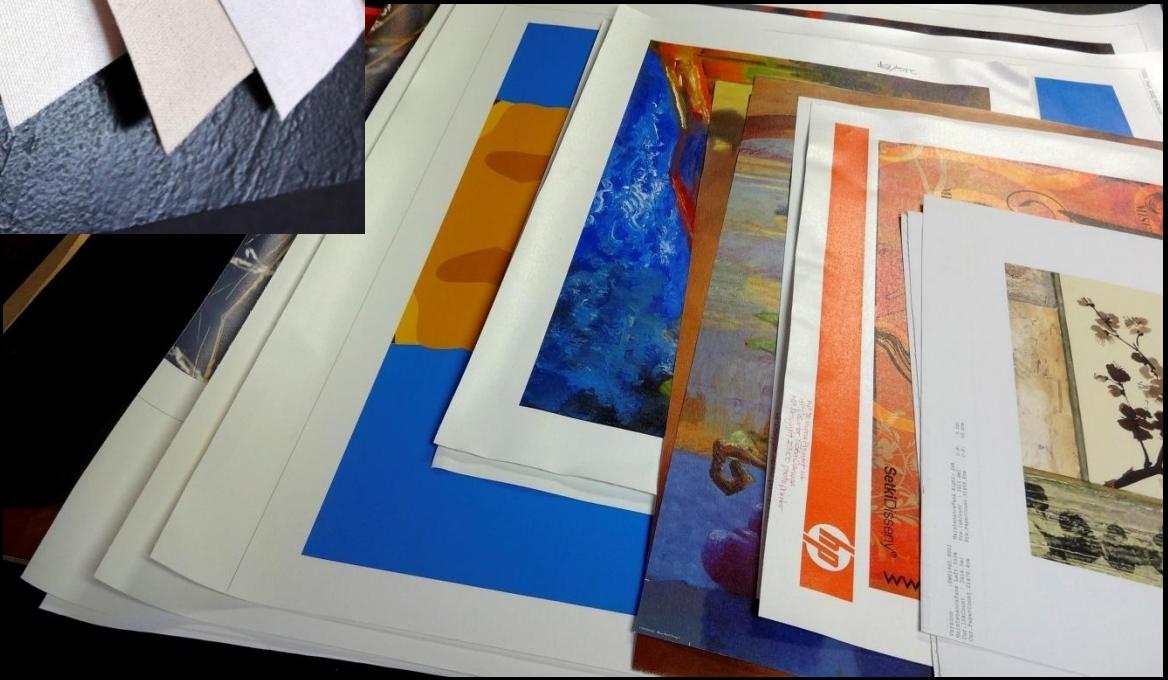
PFM article June 2006





Canvas Test 2014

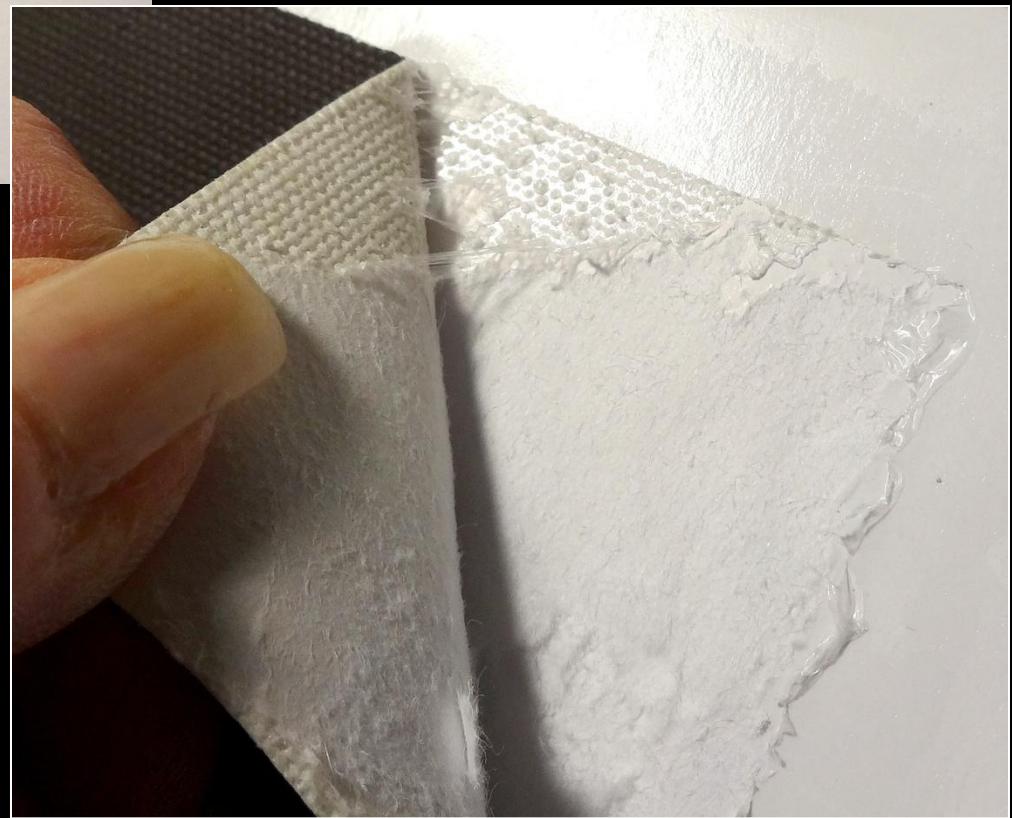
In search of tear strength





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

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



HA Board - Fabric and Printed Digital Canvas Comparisons

Board	Types of Art												Digital Canvases						Board Info														
	Lightweight Porous Paper	Heavy Uncoated Paper	Lightweight Coated Paper	Coated Paper 90#+	Textured Papers	Asian Papers	Heavy Watercolor Paper	Original Graphic	Synthetic Papers, Tyvek	Poly mat, honeycomb panel	Polyester Encapsulate	RC gloss, RC matte, Metallic	R4-4 Photographs	Digital (heat tolerant)	Light Fabrics	Natural silk, linen, cotton	Poly silk, satin, moiré	Raw Canvas	Digital Canvas	Crane Museo Maestro	PC	PC	C	PC	PC	P	PC	PC	Permanent	Removable	Reversible / Preservation	Cure or Cool under weight	Neutral pH or stable & inert
Heat Activated (HA) Boards																																	
3A Forme-Cor Heat Activated	X	X	X	X	X	X		X	X	X	X	x	x	X	X	F	F	F	F	F	F	F	F	F	1.5-3m	F170-180	X						
Bainbridge Artcare Restore	X				X	x	X		x	x	x			F	F	-	-	-	-	-	-	-	-	-	15s-1m	F150-170	X	X	X				
SpeedMount	X	X	X						x	X	X	X					F	F	F	F	F	F	F	F	1-3m	F150-160	X	X					
Heat Activated Foam-HAF	X	X	X	X	X	X		X	X	X	X	x	x	X	X	x	x	x	x	x	x	x	x	1-3m	F160-180	X	X						
Encore Single Step	X	X	X	X	X	X				X	X	X	x	x	X	x	x	x	x	x	x	x	x	2-3m	F180	X							
Gilman InSite Heat-Activated Foamboard	X	X	X	X	X	X		X	X	X	X				F	F	-	-	-	-	-	-	-	15s-1m	F160	X		X					
MountCor	X	X	X	X	X	X		X	X	X	X	X	x	x	X	F	-	-	-	-	-	-	-	30s-2m	F130	X		X					
MountCor Canvas	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	2-3m	F130	X	X						
Hartman HartMount	X	X	x	X					X	X	x				F	F	F	F	F	F	F	F	F	1-3m	F185	X							
Kool Tack Preserve	X	X	X		x	X			X	X	x			F	F	-	-	-	-	-	-	-	-	15s-30s	F150-160	X	X	X					
Preserve Ultra	X			x	x	x			X	X	x			F	F	-	-	-	-	-	-	-	-	15s-30s	F150-160	X	X	X					
100% Reversible Acid Free FB	X				x	x	x		X	X	x			F	F	-	-	-	-	-	-	-	-	15s-30s	F150-160	X		X					
Drymount Foamboard Archival	X	x	x	x	x	x			X	X	X	x		x	x	x	x	x	x	x	x	x	x	15s-1m	F150-160	X	X						
Drymount Foamboard - white	X	X	X	X	X	X			X	X	X			x	x	x	x	x	x	x	x	x	x	15s-45s	F150-160	X	X						
E2-High density, fabric board	X	X	X	x	X	X	F	X	X	X	X	x	F	X	x	x	x	x	x	x	x	x	30s-2m	F170	X	X	X						
3X Mounting Board	X	X	X	X	X	X			X	X	X	x		x	x										15s-30s	F150-160	X	X					
Omega/M&M Heat Activated Mount (HAM)	X	X	X	F	X	F		X	X	X	X	x	F	F	x	F	F	F	F	F	F	F	1-2m	F170	X		X						
Adhesives																																	
HA Films = Fusion, Flobond...	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	F	X								F180-200	X	X	X					
HA Digital Tissues = RagMount, GigléeMount...	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	F	x								F180-900	X		X					
P-S Film = Gudy 871, PMA, PerfectMount	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	F	F								rollers	X	X						
Pressure-Sensitive Boards																																	
3A Forme-Cor Self Adhesive	X	X	X	X					X	X	X			F	F										X	X	X	X					
Coda-Foam 1/4" and PVC	X	X	X	X					X	X	X			F											X	X	X	X					
Gatorfoam	X	X	X	X					X	X	X			F											X	X	X	X					
Crescent PerfectMount Foam	X	X	X	X					X	X	X			F	F										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							
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							
Elmer's Quick Stick HT Self Adhesive	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		F	F										X	X	X	X					
Hartman HarTac	X	X	X	X	X	X			X	X	X	X		F	F										X	X	X	X					
Kool Tack InstaMount	X	X	X	X	X	X		X	X	X	x	x	x	x	x	F								X	X	X	X						

Legend: x = moderate bond; X = good bond; **X** = excellent bond with tear strength; F = failed when tested; N = do not apply heat; blank = not suitable; PC = poly/cotton; P = polyester; C = Cotton

Mounting Digital Canvas and Photos

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

Gilman MountCor

- 130°F lowest temperature available
- 15 seconds mechanical press, 2 minutes hot vacuum
- Safe for ALL digitals, brass rubbings & high melt wax

High Tack P-S with Roller Laminator

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

Heat Mounting Comparisons

Dry MHA Tissues or Films Specifically for Digitals

Bienfang ClearMount, RagMount @ 180°F-190°F

Drytac Gigl  eMount

HA Foam Center Boards

High Temperature = 180°F

Bainbridge HAF, Single Step, NuCor, Hartman

Medium Temperature = 150°F-160°F

SpeedMount, KoolTack, Gilman InSite

Low Temperature = 130°F

Gilman MountCor

Reversible Boards = 150°F-160°F

KoolTack Preserve, Bainbridge Restore

Digital Photo Identification

Endura Metallic Photos - Then and Now

Kodak Professional Endura Color Metallic Paper

- Stable like traditional RC
- May heat mount to 190°F
- RA-4 slightly more surface sensitive
- Discontinued 2009

Kodak Professional Endura Metallic VC Digital Paper

- New Metallic Paper has two dots separating "PAPER", "PAPIER" and "PAPEL"
- Digitally surface sensitive
- Con color shift at 190°F and above
- Mount with P-S or 130°F MountCor

Fuji Pearl Photos

Fuji Crystal Archive Digital Pearl Paper

- Kodak Professional Endura Metallic VC Digital Paper
- Surface Scratches
- Damage with breath
- Transfers substrate surface; Orange Peel
- Acts like Cibachrome
- Commercially printed on Oc  LightJet
- Fuji Pearl is not the same as FujiFlex



Endura Metallic



Kodak Endura Paper
Mica in coating appears silver

Fuji Pearl RC (R)

Cibachrome vs. FujiFlex

Ilfochrome Classic

- Traditionally comes from slide film
- Current day are digitally produced
- 100% polyester film substrate
- Glass-like surface very susceptible to damage
- Static mount method to maintain image

FujiFlex Crystal Archive Printing Material

- Glass-like surface very susceptible to damage
- 100% polyester film substrate
- Transfers substrate surface
- Static mount image as above

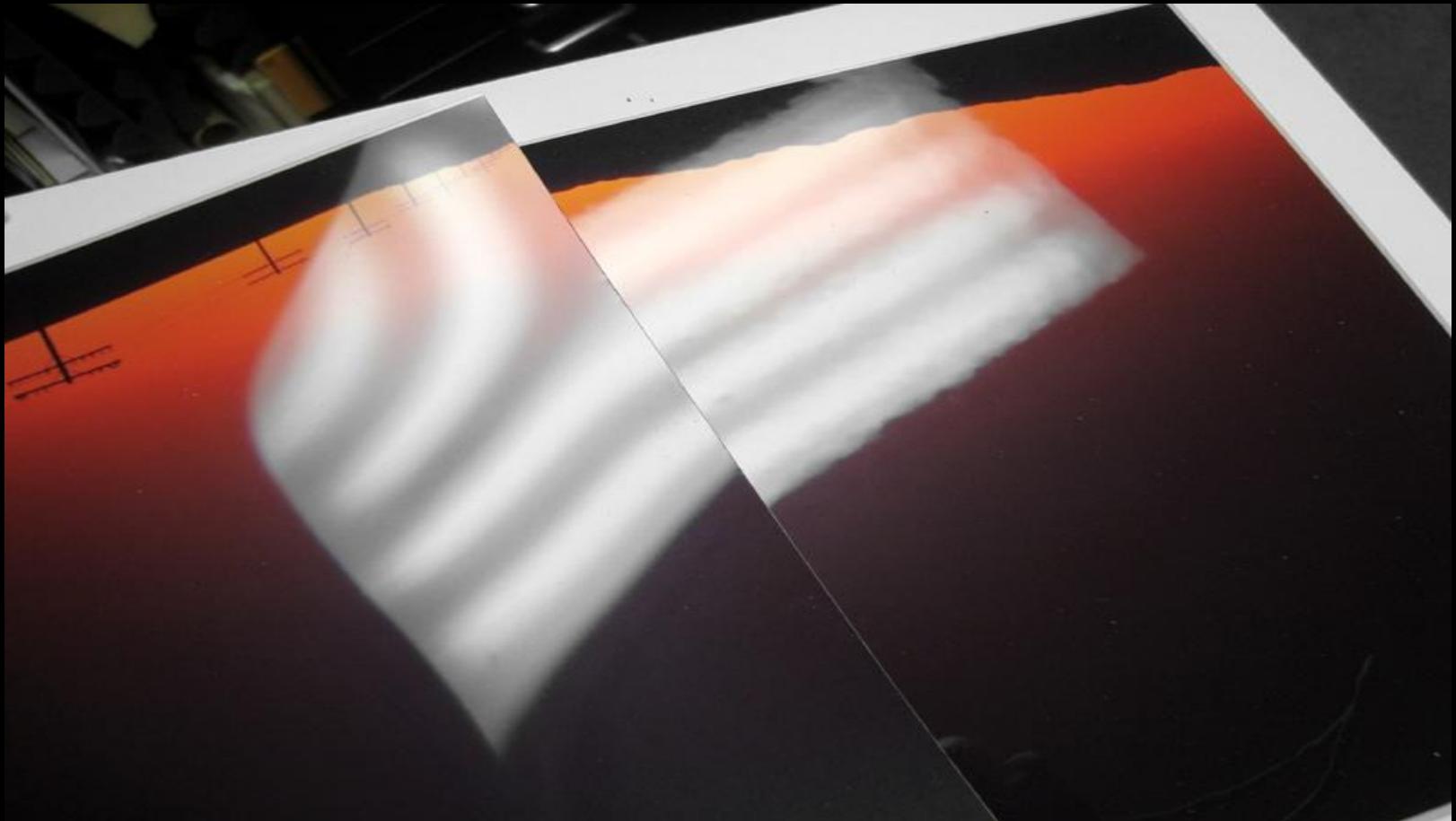


FujiFlex polyester (L), Ilfochrome Classic polyester (R)



High gloss,
smooth surface
must be maintained

Prone to scratches
and moisture



FujiFlex glass-like surface calls for static mounting (L)
Even low temp 150°F, short dwell time 15 sec produces orange peel (R)

When in doubt...Go Cold

Cold Mount Materials
Manual PSAs

Low,
Medium,
High tack

Roller Laminators
High tack PSAs
Any substrate



Drytac JM26

Cold Rollers

D&K55



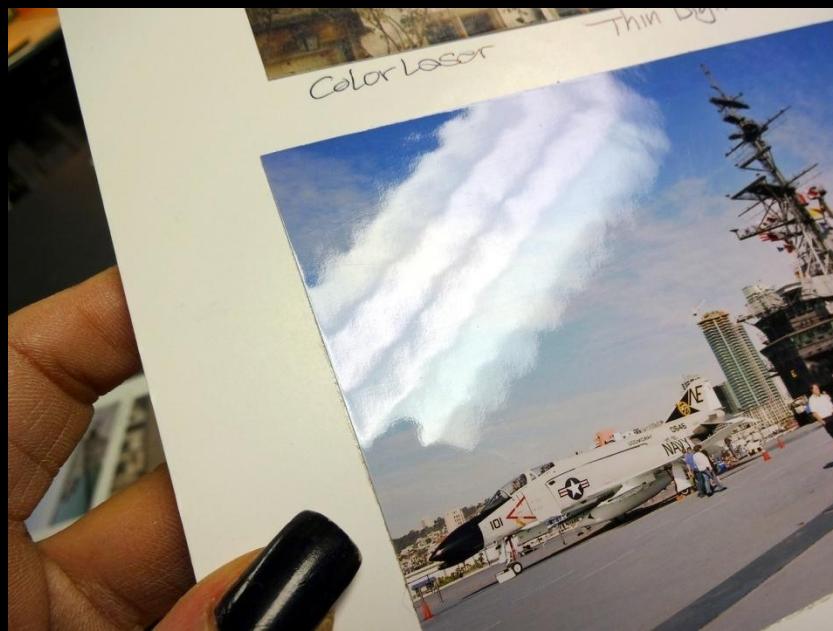
Drytac ML25

CodaMount 44





Pressure control
(TTPM) is mandatory



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See you next year!!



Chris A. Paschke, CPF GCF
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