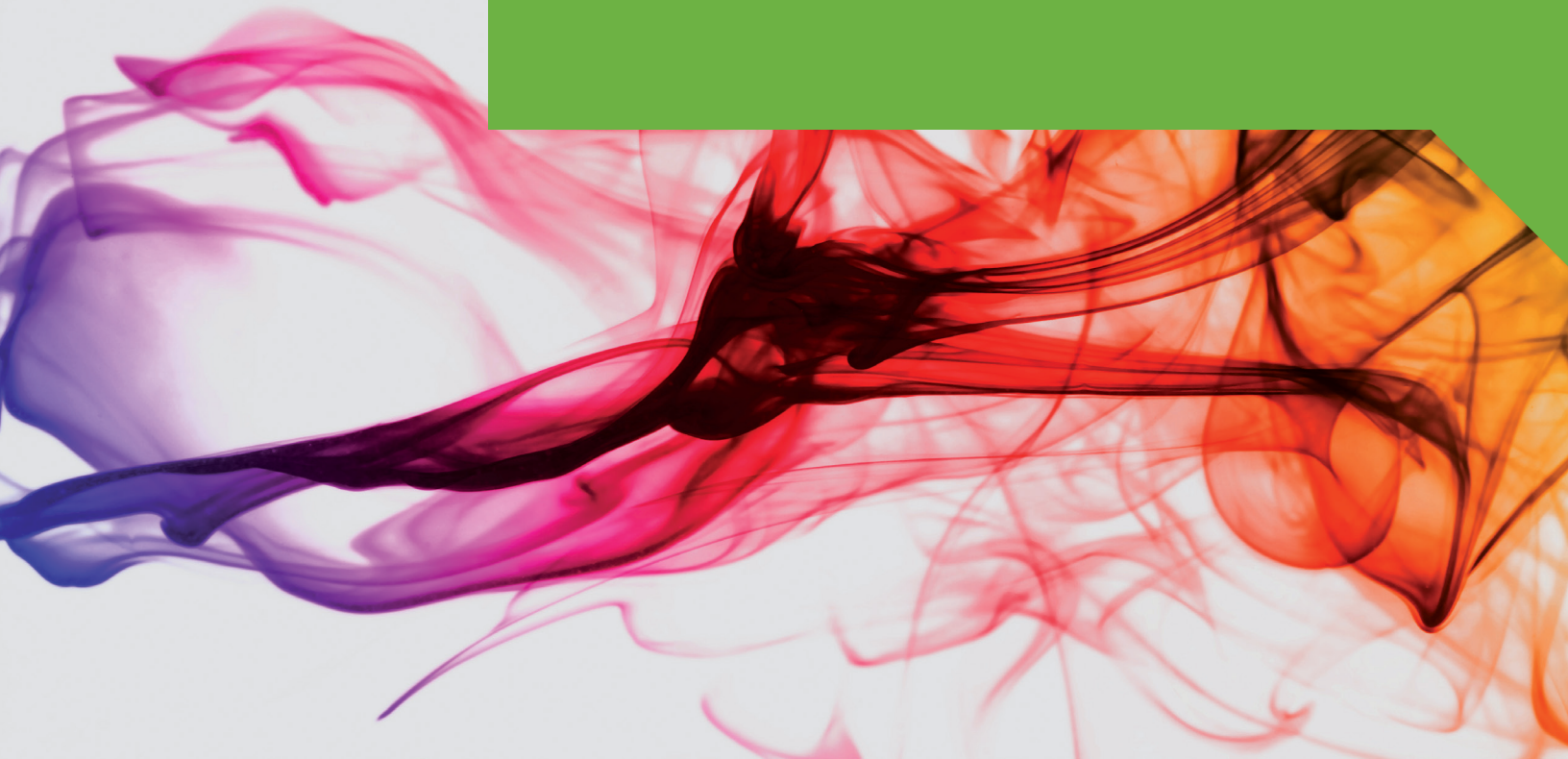




Reference Guide Aqueous Ink



simply the better solution

simply the better solution

Locations

Sihl Inc.

Rhode Island, USA



Sihl GmbH Production Site

Duren, Germany



About Sihl Digital Imaging

Sihl is a leading manufacturer of digital print media for display graphics, photo and art reproduction, point-of-sale advertising, CAD, office and at-home printing.

Sihl's expansive portfolio of digital imaging media includes: photo papers, pressure sensitive, block-out, and presentation matte papers, clear, white and backlit films, semi rigid film for pop-up and roll-up displays, canvas, scrim banner, pressure sensitive vinyl, adhesive backed papers and films, and fabric transfer papers.

Our coating Know-How dates back more than 100 years, with constant advancements keeping our knowledge refreshed. Sihl is a manufacturing group with sites in the USA and Germany. A group linked by coating films, papers, and specialty substrates as our source of value add.

How to Buy Sihl Products

For Sihl Digital Imaging product information



Call: 800.777.7359

Web: www.relyco.com

Where you can find more product information and an authorized Sihl reseller near you.

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Key Guide



**Aqueous Inkjet
Compatible**



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Compatible**



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Compatible**



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Compatible**



**Pagewide Printer
Compatible**



Product Tips



**FSC®
Certification**
FSC Certified
Look for FSC
Certified products



SiHL Top Picks

Choose the Right Photo Media

Choosing the right photo paper can be as simple as it can be complicated. Keep it simple, start with the application and the key requirements and work backwards!

Will there be bright lights that create glare? Start with a satin or pearl finish to reduce glare without sacrificing color or pop. This finish also helps hide fingerprints!

Are you looking for a photopaper with a natural white point? Choose Maranello! If you need a brighter white point, Rocket is for you.

Unlock your potential for greater profits by selecting the right photopaper for the right application.



To Create Prototypes

Siht 3670 Imola with pressure sensitive adhesive is designed to ease the design of packaging prototypes.

- Aggressive adhesive adheres to most cardboard
- Does not shrink like PVC films
- Crack resistant coating to prevent white areas in the folds
- Soft finish allows colors to shine with minimal glare so products look brilliant when photographed or displayed
- Compatible with aqueous and latex printers



Framing & Gallery

The perfect product for framed reproductions of gallery prints

- Color stable to ensure white point does not shift over time and prints retain their original color for generations
- A 9 mil resin coated (RC) sheet that provides the feel of traditional photographs
- Excellent color brilliance for crisp reproductions

AQ 3944 SuperSorb™ Photo Paper
Satin / 9 mil
FSC Certified



Mounting

The perfect photo paper for jobs where the graphic will be mounted onto a more rigid substrate. We have shaved the thickness to save cost, retained stiffness for ease of handling, and finished the paper with a soft satin to prevent glare from bright display lights. Available in plain version and adhesive backed. - See insert above!

AQ LTX 3670 Imola™ Photo Paper PSA
Pearl / 7 mil base plus 2 mil liner
Also listed on page 6



AQ LTX 3698 Imola™ Photo Paper
Pearl / 7 mil
FSC Certified



Everyday Posters!

The every day photo paper that offers excellent print quality and easy handling for post production processing. Neutral white point provides a pleasing warm background.

Instant dry coating so you can start handling the prints shortly after they come out of the printer. Water resistant to save the print if water accidentally gets splashed on the image.

AQ 3620 Maranello™ Photo Paper
Satin / 8 mil
FSC Certified



AQ 3999 Maranello™ Photo Paper
Gloss / 8 mil
FSC Certified



Bright white, instant dry photo paper that will become your go-to print paper. Use 8 mil for posters and prints, 10 mil for reproductions.

AQ 3507 Rocket™ Photo Paper
Satin / 10 mil
FSC Certified



AQ 3506 Rocket™ Photo Paper
Gloss / 10 mil
FSC Certified



PW AQ 3372 Rocket™ Photo Paper
Satin / 8 mil
FSC Certified



PW AQ 3371 Rocket™ Photo Paper
Gloss / 8 mil
FSC Certified



Great bright white, cockle-free matte papers that can tackle your most demanding ink load, drytime, and shadow detail requirements. Perfect for photo reproductions and graphic images

PW LTX AQ 3257 PosterColor™ X 180 Matte
Matte / 7.5 mil
FSC Certified



LTX AQ 3282 PosterBright™ Matte Paper
Matte / 10 mil
FSC Certified



Choosing the right POS Media

Choosing the right material for point of sale displays can be a complex decision balancing durability and cost. A great looking graphic that cannot withstand the high traffic of a retail environment is no more successful than an indestructible graphic that gets used once.

Do you need a roll-up for a college recruiter? Select a blackout polyester that will look as good after a month on the road as it did the first day.

Does your customer want a wall graphic that can be removed without damaging the wall finish? Sihl has a solution for you.

Prevent the loss of profits from redoing jobs. Sihl helps you navigate your choices so you can select the right POS media for the application.



High Use / High Traffic Displays

Made from 100% curl resistant polyester base film, these products are designed for durability. High traffic areas where displays need to be wiped clean, repeated use roll ups for sales reps or recruiters.

Tear resistant base and an instant dry microporous coating to allow for gentle handling right from the printer. Prints are water resistant so a water spill will not ruin the graphics. For additional durability or stiffness, use a pressure sensitive overlaminate

AQ 3171 SuperDry™ Roll-up Film
Gloss / 5 mil



AQ 3471 SuperDry™ Roll-up Film w/ Grayback
 Satin / 7.5 mil



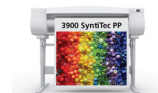
Short Term / Low Traffic Displays

Made from tear resistant polypropylene base film, the economical SyntiTec products offer a smooth, flat surface ideal for short term displays or maps that deliver vibrant, curl resistant graphics. SyntiTec films can be used outdoors without lamination for up to 2-3 months. For additional durability or stiffness, use a pressure sensitive over-laminate

PW LTX AQ 3390 SyntiTec™ Light Polypro Film
Matte / 6 mil



PW AQ 3900 SyntiTec™ PolyPro Film
 Matte / 8 mil



Polyester

Top choice for durable banners and POS signage

- Tear Resistant
- Lay flat
- Smooth Finish

PVC

Traditional choice for banners made from reinforced PVC

- Tear Resistant
- Outdoor / Indoor durable
- Matte Finish

Polypropylene

Economical choice for short term or low traffic displays

- Lay flat
- Smooth
- Matte Finish

Fabric

Woven and non-woven fabric appearance with great hand and drape characteristics

- Tear Resistant
- Lay flat
- Outdoor durable

Traditional Displays

These 14 oz Scrim reinforced PVC banners are the traditional display product. Great tear resistance with a flat matte finish, these products can be used for indoor displays as well as short term outdoor displays (up to 6 -12 months)

AQ 3604 Smart™ Banner Vinyl
 Matte / 15 mil / 14 oz



AQ 3960 Banner Scrim Vinyl™ w/ Blockout
 Matte / 15 mil / 14 oz



Visually Striking Displays

Textile and Textile-like products give a unique hand and look to a graphic. Use the texture of the print media to reinforce the graphic and create a more memorable message. Fabric Banner Plus FR is a block out, NFPA 701 certified, ultra durable, water resistant banner making it the perfect choice for free hanging displays or high quality roll-up systems. Texbanner is a lightweight non-woven banner that looks and feels like a textile. Bright white, tear resistant, and durable for up to 3 months outdoors.




Use Texbanner for displays

- In a clothing store to help connect the soft textile look of the graphic with the merchandise, for a connected, visually pleasing solution.
- When graphics are used to define traffic through a store, soft signage is perceived as less intrusive.

UV LTX AQ 3512 Fabric Banner Plus FR
 Matte / 11 mil



UV LTX AQ 3275 TexBanner Xtreme White™
 Matte / 12.5 mil



Sticking it Right

Choosing the right PSA solution is driven by two main factors: the mounting surface and how long the graphic is expected to be there.

For longer lasting graphics or prints that are going outside, pick a permanent adhesive that will strongly bond with the surface and prevent premature failure.

For graphics mounted onto smooth surfaces, select the product where the surface finish enhances the message.

Windows are the new frontier for graphics. Sihl has clear and opaque graphics to enhance any window message.



Graphics on walls

Always test the surface when applying adhesive graphics.

- Some paints have low surface energy which makes them easy to clean but tough to stick graphics too.
- Some walls have textures that are too rough and don't allow adhesives to form good contact.
- Some walls have paint that is compromised and can flake off when removing the graphic.

Wall Graphics

6 mil calendered vinyl base with a matte finish, treated to minimize shrinkage. The bright white inkjet coating provides universal compatibility with most common aqueous inkjet printers. The permanent solvent adhesive is ideal for strong, long lasting adhesion to flat and uneven surfaces. Two year outdoor durability on vertical surfaces.



3988 Classic™ Matte Vinyl

Matte / 6 mil base & 5 mil liner / Permanent Adhesive



To create stunning murals, nothing beats the soft texture of a mounted textile. The repositionable adhesive allows the graphic to be applied, removed, and reapplied multiple times with ease and no bubbles or wrinkles. The bright white coating has excellent construction, scratch resistance, and durability. PVC free material makes it ideal for interior décor, temporary table top graphics, and fat head type images. Edges won't fray even when contour cut.



3209 QuickStick™ AQ Adhesive Backed Fabric

Matte / 7 mil base & 6 mil liner / Repositionable Adhesive



To Test the Surface

1. Clean it with isopropyl alcohol
2. Apply film sample with firm pressure
3. Let sit for 24 hours
4. Check edges to see if they are still firmly attached
5. If not attached use more aggressive adhesive

The Stick on Sticky

Base

Vinyl

Traditional choice for adhesive graphics. Flexible, durable, and easy to apply makes this a perennial favorite

Polypropylene

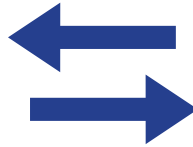
PVC free solution that will not shrink with time. Slightly more rigid than vinyl

Polyester

Very durable and easy to apply. Rigidity is ideal for very smooth surfaces. PVC free.

Textile

PVC free solution. Very flexible makes application easy. Texture masks uneven surfaces and will not shrink.



Adhesive

Permanent

Offers the strongest hold. Best option for long term graphics. May leave adhesive and graphic residue when removed.

Removable

Strong hold and ideal for graphics that get replaced frequently. May leave residue when removed.

Repositionable

Allows graphic to be repositioned without damage to either graphic or substrate. Does not leave residue when removed.

Smooth Surface Graphics

Calendered vinyl base treated to minimize shrinkage with an aqueous adhesive to provide long term indoor or short term outdoor graphics.



3585 Premium Vinyl

Gloss / 5 mil base & 5 mil liner / Permanent



3635 Standard™ Vinyl PSA

Matte / 6 mil base & 5 mil liner / Permanent



Promotional Graphics

Mount posters or prototype graphics onto cardboard. Sihl's Imola photopaper with permanent adhesive makes it easy to finish.



3670 Imola™ Photo Paper PSA

Pearl / 7 mil base & 2 mil liner / Permanent

Also listed on page 1



Window Graphics

Polyester film graphics are ideal for window graphics because of their extreme clarity, stability, and durability.



3166 ClearStick™ Adhesive ClearFilm

Gloss / 2 mil base & 4 mil liner / Removable

Also listed on page 7



3989 WindowGraphx™ Film w/ EasyTack

Matte / 8 mil base & 3 mil liner / Repositionable

Also listed on page 8



Are you Clear on Clear?

Choosing the right clear film depends on the application. Under some circumstances clarity is important, as when doing overlays Sihl's Absolute and Vision clear films boast extreme clarity with high inkload for bright crisp graphics.

For window graphic prints where density is important so graphics are visible under many conditions, Sihl has a solution for that.

If you are printing films to burn screens, Sihl's solution offers industry leading density with extreme clarity to UV light.



High Density Positives / Negatives

Dimensionally stable 5 mil polyester film designed to create screen positives or negatives using aqueous inkjet printers. The unique microporous coating delivers instant dry time which allows the film to be handled right out of the printer, plus water resistance to prevent a water splash from damaging the print. Low UV D_{MIN} and high UV D_{MAX} with dye or pigment inks.

AQ 3642 Spirit™ Screen Positive Film
Gloss / 5 mil



Window Graphics

Extremely clear polyester film with an extremely clear removable adhesive makes an amazing optically clear window film. Images with both dye and pigment inks and can be used with virtually any interior application. See installation video on Sihlinc.com

LTX AQ 3166 ClearStick™ Adhesive Clear Film
Gloss / 2 mil base & 4 mil liner
Also listed on page 6



Color Separations & Overlays

4 mil polyester film with extreme clarity to create images where all you see is the image not the film. Available with side striped film for compatibility with HP and other brand printers which search for the media edge before printing. The universal coating is designed to provide excellent print performance and still maintain the excellent clarity of the film.

AQ 3162 Vision™ Clear Film with Side Stripes
 Gloss / 4 mil / Side Stripe



Shining Light on Backlit

Choosing the right backlit film can be tricky. Color density is typically the most important criteria; we all chase deep rich blacks and vibrant reds. Having a uniform diffusing layer (The white translucent part of the film) will prevent “hot spots” on the graphic from the light behind.

Is your customer looking for a vibrant backlit that needs to slide into a frame? Select an 8 mil film that will drop in without curling at the bottom and with no need to laminate for rigidity.

Open up new revenue by finding out how easy it is to create stunning backlits with Sihl's proven backlit solutions.

Backlit Displays

Tough and stable polyester films form the core of the backlit offering. No matter what the temperature or conditions the graphics will remain flat and the colors vibrant. With lights both on and off, the super absorbant matte coating provides instant dry time and a particularly wide color gamut with most aqueous inkjet printers.

AQ 3365 Ariana™ Heavy Backlit Film
Matte / 9 mil



Window Displays

For displays on windows that give the appearance of stained glass, nothing beats a backlit film. Designed to diffuse the light, Backlit films allow the image to glow when lit from behind. Backlit films with Sihl's EasyTack adhesive quickly turn a window into a stunning focal point.

AQ 3989 WindowGraphx™ Film with EasyTack
Matte / 8 mil base plus 3 mil liner
Also listed on page 6



Easy Tack

Sihl's proprietary repositionable adhesive with microsphere technology allows for easy, 100% bubble free application, and residue free removal from smooth surfaces. (glass/metal/plastic)

Stretching the Options for Canvas

Choosing the right canvas starts with who the customer is: a professional artist making a gallery print, a designer looking for a print to use in a lobby, a mom who wants a nice picture of her kids. Each of these has different requirements for color accuracy, framing, price, and even the texture of the canvas.

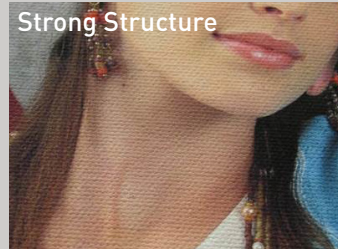
For the artist, Sihl has a fabulous heavy canvas with no OBAs for unrivaled reproduction and longevity. Pick an everyday canvas for the budget conscious mom that wants to have a work she can display with pride.

Enhance your ability to generate additional profit by having a way to upsell from the traditional matte canvas: print on a gorgeous satin canvas with no need to liquid laminate.



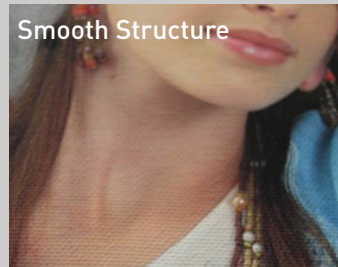
Eliminate “Blotchy Skin”

Strong Structure



Strong Canvas structures provide excellent natural texture for reproductions of paintings and other art work. This structure can cause unpleasant effects, particularly when printing photos, creating the appearance of “blotchy skin”. (See neck area of “Strong Structure” insert)

Smooth Structure



Sihl's Artist Canvas series is designed to minimize this effect. (See “Smooth Structure” insert)

Artist and Gallery

Heavy weight poly-cotton blend canvas coated with the most advanced canvas coating. The remarkable coating holds the ink in place to eliminate the “blotchy skin” effect common in many other canvases (See Insert). OBA free for extended color stability and stretch friendly. A 2:1 weave construction to provide the best resistance to edge cracking.

AQ 3948 Instant Dry Canvas
Satin / 19 mil



AQ 3857 Artistic Canvas
Matte / 19 mil





Create a Unique Experience

Sihl 3948 Instant Dry Canvas exceeds expectations in an industry where a beautiful print is the final impression a client has of working with you

- Stretches with no cracks
- Surface is not dull and not overwhelmingly glossy
- No lamination needed
- Instant dry
- Water resistant

Creative

Light weight and bright white, designed to retain the canvas structure and provide brilliant images. Characterized by higher opacity, strength, and better resistance to edge cracking. Suitable for use with automatic stretching equipment.



3579 Decor Brilliant™ Canvas
Matte / 15 mil



Fabric Transfer

Universal fabric transfer for applying images to white or light colored fabrics. Perfect for short run jobs and projects with many colors or photos in them. Just print, cut and apply! Three easy steps to create t-shirts, custom drapes, pillows, and handbags with a soft touch that feels like silk screen.



4583 T-Printz™ Universal Light Fabric Transfer
White / 2.3 mil base and 3.2 mil liner



1. Print

- Print mirror Images
- Transparent base is preferred to use on white or light colored fabrics

2. Cut

- Trim excess material
- T-Printz can easily be cut with the most popular counter cutters

3. Apply

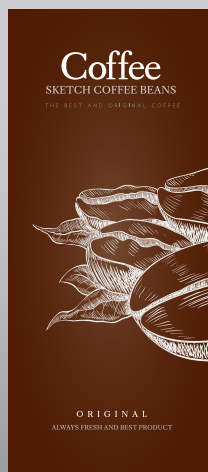
- Use a heat press for 20 seconds
- Can also be applied with a hand iron

Choosing the right Imaging Paper

Choosing the right paper can be a dizzying proposition. There are hundreds of options! Luckily Sihl can help make sense of the chaos. Do you need to make posters, courtroom graphics, or maybe some signage for a bank? There is a solution that fits your needs.

- You can encapsulate many of Sihl's poster papers to create economy roll-up solutions.
- Sihl's imaging papers create vibrant and eye catching prints - the price:performance ratio is off the charts.
- Unlock added revenue by incorporating Sihl Imaging papers into your portfolio of solutions.

So make things simpler and go with Sihl!

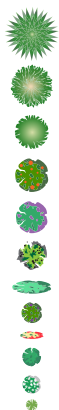
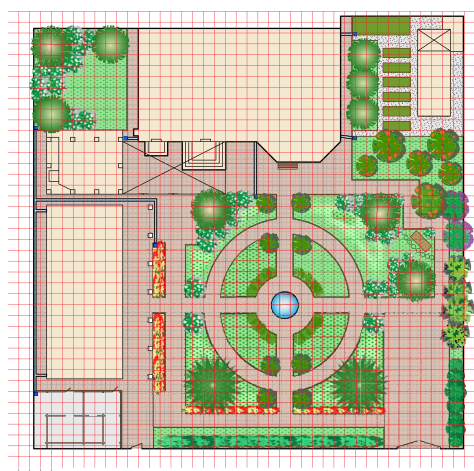


Point-of-Sale Graphics

Follow the rule of 3's to create POS Graphics that are eye catching and good to your bottom line.

1. Use TrueColor™ 3333
A paper with a great value; Big Imaging properties - Small price
2. Laminate with a 3 mil thermal laminate
Protect the graphic and provide extra body and rigidity
3. Collect your profits
The lower production cost and increased productivity will drive your profits


Heavy Weight Coated Papers



When performance, value and environment intersect, True Color is the solution. The bright white coating allows images to Pop out of the page and the instant dry time keeps the work flow moving through post processing. Ease of printing makes selecting TrueColor™ a snap. The versatility of TrueColor™ papers make them ideal for a variety of applications such as posters, electoral maps, court room graphics, presentations, architectural renderings among many more.

LTX AQ 3335 TrueColor™ Paper
Matte / 9 mil
FSC Certified



PW LTX AQ 3333 TrueColor™ Paper
 Matte / 7 mil
FSC Certified



Double Sided Imposition Papers

A straight forward lightweight double-side coated paper with great color gamut, bright white surface, great color density, and universal compatibility. Applications include imposition proofs, CAD drawings, construction site field prints, etc.



AQ 3150 Tucson™ Presentation Paper 24#
Matte / 4 mil



WHERE GREAT **IDEAS**
COME TO **PRINT**



Sihl Inkjet Media...

THE MOST CHOICES for EVERY PRINTER and EVERY APPLICATION
SOLVENT / AQUEOUS / UV CURE / LATEX / PAGEWIDE