Which printing technology helps you meet your sustainability goals best?



SEE SEE More and more, sustainability is becoming an important factor in choosing a printing technology. European goals regarding the reduction of CO2 emission, to help fight climate change, will affect the printing industry in the long run. Also, customer demand for sustainable solutions is increasing. Innovation and new technologies make current printers more eco-friendly than in the past. However, there are differences between print technologies regarding their level of sustainability.

We compared and tested UV against Latex printing in several areas* Which print technology is the most sustainable choice and meets your sustainability goals? *Numbers in this infographic are based on tests done internally at Mimaki Engineering Japan



CO2 emission

UV printing









UV printing uses

Low CO2 Emission

due to low energy consumption and longer lasting printheads (preventing

low CO2 emission technology,

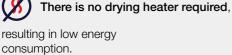
CO2 emissions during recycling / destruction of thermal inks).

High CO2 Emission Latex printing is

higher in CO2 production compared to UV printing.

Energy consumption

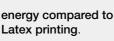






X less

UV printing consumes



approximately

to cure the media. This results in a much higher energy consumption compared to UV printing.

High energy consumption

pre-print and post-print heaters

Latex printing requires







Ink













3X less

2X less white ink consumed



Low wastage of inks UV printing consumes much less ink during flushing

(maintenance cycle) than

The ink price is also lower.

other printing solutions.

7% less compared to Latex printing.





environment and leads to unnecessary higher ink costs.













High wastage of consumables Low wastage of consumables Latex printheads are a consumable UV Piezo printheads have long durability. to be replaced after max. of 6L of ink. 2 printheads The UV Piezo printheads prevent plastic

The printheads also provide a stable colour output and

re-calibration.

wastage and CO2 emissions due to the

recycling / destruction of thermal inks.

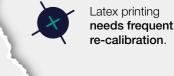


Green credentials

Health and environment

there is no need for frequent

need to be replaced in 1 year





Green credentials

Latex ink is made up of

Therefore, it is considered safer

for the environment as well.

Mimaki Latex inks are also

GREENGUARD Gold certified

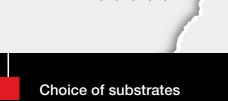


healthcare and school environments).

GREENGUARD Gold certified for safe indoor use (even in

During the UV curing process, any harmful substances from the liquid state of the UV ink

The LED (light-emitting diode) light is safe since it does not radiate short wavelengths that generate ozone.



Large choice of substrates

UV printing is a very flexible and

versatile printing technique that

provides a much wider choice of

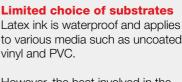
prınter

can do the job of two.

materials to print on:

for safe indoor use (even in healthcare and school environments).





to various media such as uncoated vinyl and PVC. However, the heat involved in the

Latex printing process limits the

range of media on which you can

You need a second printer to print on those materials a Latex printer

rınters = more power consumption and a higher CO2 emission.



Coated and non-coated substrates.

- acrylics, wood, metal, glass, and foam board.

• Fabric, metallic foil, heat-sensitive media, and more. • Rigid media (UV flatbed printing) such as

cannot print on.

print.

UV printing: affordable, efficient, and sustainable printing

Meet our latest UJV100-160 LED-UV printer The highly competitive UJV100-160 offers an enormous choice of print media, with high quality printing at low running costs:

• Cost-effective advanced UV technology. • Print on a wide range of materials, including backlit, metallic foil, fabric and more. • Instant-curing ink - deliver your order faster than ever before! • Automated perfect feed alignment with the new Dot Adjustment System (DAS).

- Our Mimaki UV printers are a sustainable option for Mimaki UJV100-160 EDP your business, now and in the long run, **Award Winner 2020** for 'Best Roll-to-Roll
- **UJV100-160 UNIQUE FEATURES**

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printer up to 170cm¹

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offering many other advantages as well.

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