

DIGITAL PRINT METHODS TECHNOLOGY

Solvent and eco solvent ink-jet inks in Wide Format Ink-jet printing

- Main ingredients are volatile organic compounds (VOCs).
- Comparatively inexpensive inks.
- Can easily print on to flexible, uncoated vinyl substrates.
- Pigments are used, which provide excellent fade-resistance.
- Solvent-based inks are generally waterproof and ultraviolet-resistant.
- Designed for outdoor & indoor use.
- Main applications are vehicle graphics, billboards, short and long advertising durability, wall, floor, window and banners.

UV Curable inks in Wide Format Ink-jet printing

- Main use is graphics and product decoration. Very good for rigid and non-porous substrates.
- Can be used on a wide range of uncoated materials.
- Ink-jets inks used to be fairly prone to cracking if applied to a flexible substrate but now modern formulations have overcome this, thanks to the new flexible UV Ink-jet inks.
- Designed for outdoor & indoor use.
- Pigments are used which provide excellent fade-resistance.
- Instant drying enables fast print speeds – no water or VOCs.

Latex inks in Wide Format Ink-jet printing

- Has the same outdoor benefits of solvent inks (pigmented inks).
- Latex is Aqueous based, a large amount of heat is needed to evaporate the water and co-carriers.
- Designed for outdoor & indoor use.
- Main Applications are vehicle graphics, billboards, short and long advertising durability, wall, floor, window and banners.
- This is considered a green technology.

MemJet Technology (Ink-jet)

- Dye based inks which are susceptible to fading.
- Limited use on uncoated materials.
- All of our Rapid Jet range products are top coated to give optimum print results.

HP indigo

- Can be used on coated or uncoated media. A dedicated Ritrama range is recommended for this technology.
- Is not Ink-jet technology. Slightly similarly to the Laser jet process.
- Uses a Toner based ink called “Electroink”.

Useful information

Dyes

- Smaller particles which have a large colour gamut and high vibrancy.
- Very prone to attack from light and ozone, really only for indoor use.

Pigments

- Consist of large particles which are held in suspension.
- Colour range not quite as great as with dyes but more resistant to fading from light and ozone and usually are water insoluble.

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Considering the multiple uses of Ritrama's products, the user is recommended to test the products prior to their use, so to determine and ascertain the suitability and performance of the product for its intended application and purpose.

The methods of conversion and application of Ritrama's self-adhesive materials are multiple and it is therefore essential that the users are aware of the particular method to be used, prior to commencing the production.

Printing: Testing for compatibility between product, printers and inks is always highly recommended before printing the product.

Application Systems and Conditions: it is recommended that the performance of the product be always tested in the actual applications conditions as substrate state (rough, smooth, flat or irregular shapes, moderate curves, with or without rivets); applicator technology (hand application or fully automated lines); specific stress on Ritrama material once applied (high and/or low temperature, mechanical stress, exposure to challenging environment conditions), et cetera.

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