



ZELLER+GMELIN

Narrow Web

[eng]

High Quality Inks for Narrow Web Applications



UVAFLEX Y84

The modern flexo printing ink for non-food applications

+ High colour brilliance and print speed

UVAFLEX Y84		
Applications	Self Adhesive Labels	++
	Wrap-Around	++
	Shrink Sleeves	++
	In-Mould Labels	++
	Flexible Packaging	++
	Folded Box	++
Substrate	Film	++
	Paper Coated	++
	Paper Uncoated	++
	Topcoat Thermal Paper	+
	Eco Thermal Paper	–
Combination Printing	UV Flexo	++
	UV Screen	++
	UV Offset	++
	UV Letterpress	++
	UV Overvarnishing	++
Finishing and Further Processing	Hotfoiling	++
	Coldfoil	++
	Shrinking	++
	Thermal Transfer	++
	Thermal Direct	++
	Laserprint	++
	Ink Jet Druck	+
Laminating	Free-radical Adhesive	++

++ suitable + partly suitable – unsuitable

Y84

Applications

- + self-adhesive labels
- + shrink sleeve labels
- + in-mould labels
- + wrap-around labels
- + flexible packaging
- + folding cartons

Properties

- + good adhesion
- + good curling behaviour
- + fast curing (highly reactive)
- + low odour
- + good scratch- and rub resistance
- + low ink penetration
- + ready for overvarnishing and hot foil stamping
- + suitable for laserprinting
- + ready for thermal transfer- or thermal direct printing
- + very good printability
- + colourimetrically supported
- + VOC-free

UV LED Technology

The LED technology has become a true alternative solution in the field of radiation curing! UV and UV LED inks are dried in exactly the same way. It is irrelevant whether standard mercury lamps or LED lamps are used.

The ink or the photoinitiators start chemical cross-linking of the ink film when exposed to UV light. The difference is that an LED system cures with a specific wavelength. The crosslinking reaction is thus triggered by excitation in a very narrow wavelength range. Industrial LED systems can operate in a wavelength range from 365 nm to 405 nm. The most common systems are those that emit at 385 nm or 395 nm.

Environmentally friendly + sustainable

Our printing inks are highly reactive systems that, thanks to their formulation, do not contain any kind of volatile raw materials. This makes our printing inks solvent- and emission-free! UV LED technology also completely eliminates the use of mercury vapour lamps.

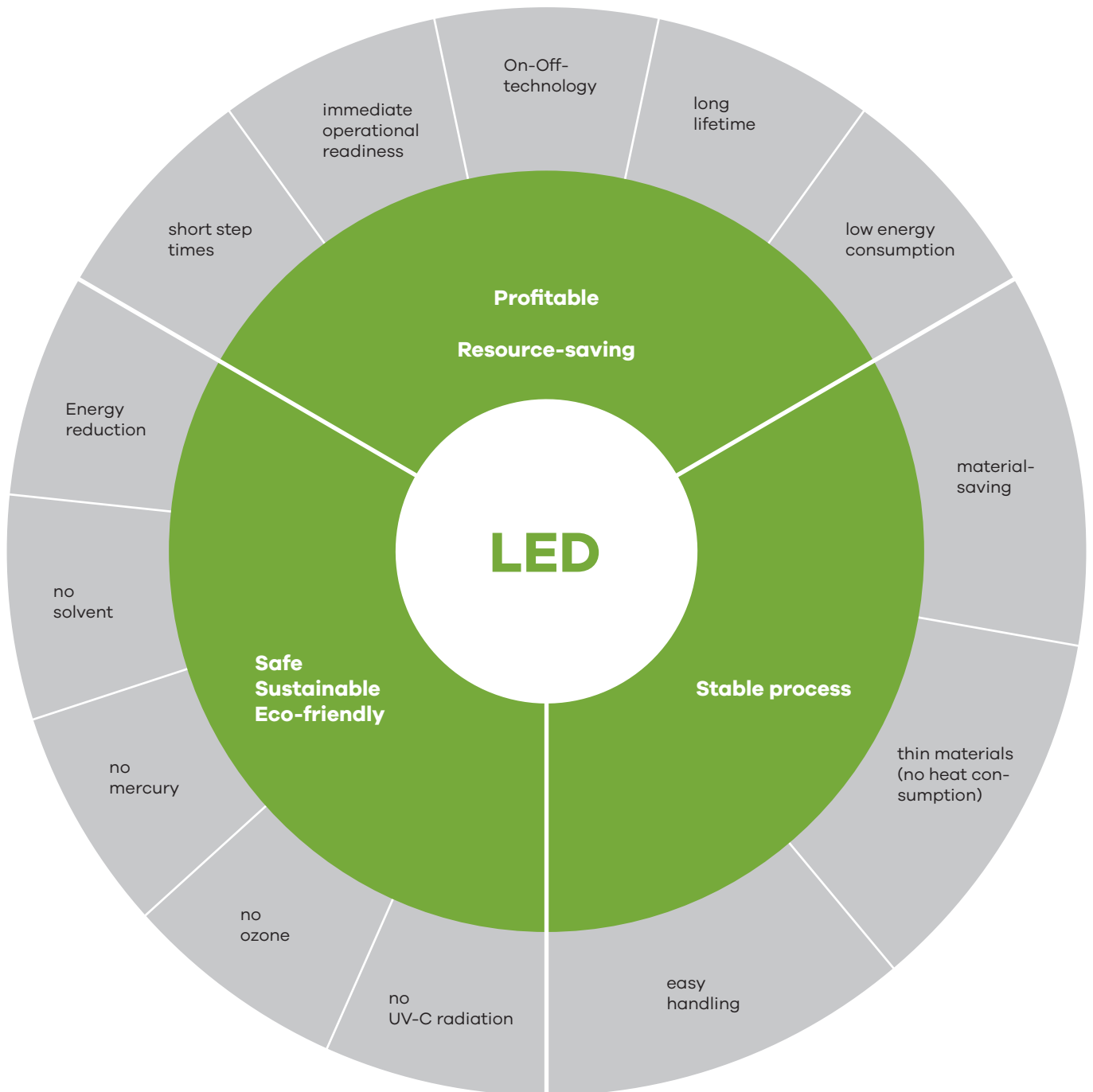
Therefore, you no longer have mercury in your production process and thus protect the environment. By using a specific wavelength when using UV LED emitters, no ozone is created on the machine, heat input is reduced to a minimum and no critical UV-C radiation is emitted. This makes our UV LED ink solutions a user and environmentally friendly system!

- + no ozone formation
- + mercury-free technology
- + no critical UV-C radiation
- + minimum heat input
- + low energy demand

Profitable + powerful

LED lamps are ready for immediate use, eliminating stand-by or heat-up times. You can operate the lamps in "switch on-switch off" mode and thus clock your processes. In addition, LED units can be partially switched due to their design. This enables the switching off of unneeded LEDs outside the print area. LED lamps also have a much longer service life with no power loss. This extends maintenance cycles many times over.

- + high efficiency
- + long service life
- + no power loss
- + zone switching
- + it can be clocked
- + no warm up time
- + no standby time



UVAFLEX LED Y584

The modern flexo printing ink for non-food applications

+ High colour brilliance and print speed

UVAFLEX LED Y584		
Applications	Self Adhesive Labels	++
	Wrap-Around	++
	Shrink Sleeves	++
Substrate	Film	++
	Paper Coated	++
	Paper Uncoated	++
	Topcoat Thermal Paper	+
	Eco Thermal Paper	–
Combination Printing	UV-LED Flexo	++
	UV-LED Offset	++
	UV-LED Overvarnishing	++
Finishing and Further Processing	Hotfoiling	++
	Coldfoil	++
	Shrinking	++
	Thermal Transfer	++
	Thermal Direct	++
	Laserprint	++
	Ink Jet Druck	+
Laminating	UV-LED Adhesive	++

++ suitable + partly suitable – unsuitable

Y584

Applications

- + self-adhesive labels
- + shrink sleeve labels
- + in-mould labels

Properties

- + good adhesion
- + good curling behaviour
- + fast curing (highly reactive)
- + low odour
- + good scratch- and rub resistance
- + low ink penetration
- + ready for overvarnishing and hot foil stamping
- + suitable for laserprinting
- + ready for thermal transfer- or thermal direct printing
- + very good printability on all common substrates
- + colourimetrically supported
- + VOC-free

The use of LED technology also results in the following aspects:

- + no ozone formation, so that extraction is no longer necessary
- + no mercury
- + no UV-C radiation

Mixing with Z-Base-Colours

Based on years of positive experience with monopigmented ink mixing systems, we also offer a monopigmented ink mixing system for our new LED offset series.

Advantages:

- + PANTONE® shades can be blended better
- + colour mixtures are more colourful and purer, since only pigments that are actually necessary for a colour mixture are used
- + the higher colour intensity enables printing at low layer thicknesses
- + reduced dot gain in halftone printing
- + greater flexibility when setting the colour intensity of spot colours
- + less hue shifting when viewing the printed products under different light sources (metamerism)
- + the colour communication between the colour manufacturer and the customer is easier and therefore faster due to the use of monopigmented mixing systems
- + mixing recommendations are available for all PANTONE® shades
- + colour formulation, mixing and metering systems are available in various configuration levels
- + reduction of storage costs
- + lower disposal costs for residual inks

We use the same Z-Base colour mixing systems in our production facilities. This ensures fast and effective colour communication between the manufacturer and the print shop.

Whether PANTONE® spot colours or other common mixing colour systems need to be mixed, our highly pigmented colour mixing systems always produce the best possible results. Even colour fan-independent shades can be optimally adjusted.



Lacquer and adhesive systems

The solution for narrow web finishing

Lacquers and adhesives – Finishing with lacquers not only gives the printed labels a tactile or visual finish, but also protects them for use in challenging applications, both in FCM (Food Contact Material) labels for the pharmaceutical industry, as protection against mechanical influences or acidic and alkaline product packaging and industrial NON-FCM applications such as automotive and aerospace.

Completely

For all areas of application in which Zeller+Gmelin offers printing inks, you will also find varnishes, adhesives and printing aids that are perfectly tailored to the specialized applications.

Perfectly matched

Regardless of the area of application, the coatings and adhesive systems from Zeller+Gmelin are perfectly matched to the printing inks. Printing inks and printing varnish complement their properties perfectly and thus lead to a perfect printing result.

Versatile

Glossy varnish, matt varnish, protective varnish or special varnish. Coatings have to meet many requirements, no matter how special they may be. Thanks to our versatile application portfolio, we can cover almost every special application with both printing ink and coating.

Top performance

The properties of paints could not be more different. Their viscosity, reactivity and much more depends heavily on the application. Overprint varnishes from Zeller+Gmelin are always perfectly developed and coordinated for the correct application.

Modern + Safe

As required by the EU Chemicals Regulation REACH, chemicals are constantly being re-evaluated. This also applies to raw materials for our paints and adhesive systems. They are up to date in this regard and fulfill all requirements of the EuPIA Exclusion Policy. The particularly progressive Raw material selection and formulation ensure a high level of safety in the production of food packaging.



Zeller+Gmelin GmbH & Co. KG

Germany
druckfarben@zeller-gmelin.de
www.zeller-gmelin.de

Zeller+Gmelin UK Ltd

United Kingdom
info@zeller-gmelin.co.uk
www.zeller-gmelin.co.uk

Zeller+Gmelin B.V.

Netherlands
info@zeller-gmelin.nl
www.zeller-gmelin.nl

Zeller+Gmelin Ltd. Sti

Turkey
k.naim@zeller-gmelin.com.tr

Zeller+Gmelin Sarl

France
info@zeller-gmelin.fr
www.zeller-gmelin.fr

Zeller+Gmelin S.R.L.

Italy
info@zeller-gmelin.it
www.zeller-gmelin.de

Zeller+Gmelin Sp.z.o.o

Poland
biuro@zeller-gmelin.pl

Zeller+Gmelin s.r.o.

Czech Republic
zeller-gmelin@volny.cz

Zeller+Gmelin Corp.

USA
uvinks@zeller-gmelin.com
www.zeller-gmelin.com

Zeller+Gmelin, ULC

Canada
uvinks@zeller-gmelin.ca
www.zeller-gmelin.ca

**Zeller+Gmelin de Mexico S.
de R.L. de C.V.**

Mexico
xoffice@zeller-gmelin.mx
www.zeller-gmelin.mx

Zeller+Gmelin Industries LLC

United Arab Emirates
info@zeller-gmelin.ae

EXPERTLY DONE.

Zeller+Gmelin Industries LLC
Unit 5, Block 13, Bayan Complex, Umm Al Quwain, UAE
Tel.: +971 6 885 1431
info@zeller-gmelin.ae • www.zeller-gmelin.de

