

PAINTS & COATINGS

SYNTRAJET P-KY

Direct food contact inks



ZSCHIMMER & SCHWARZ



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CHEMISTRY TAILOR-MADE

Zschimmer & Schwarz is a global supplier of chemical auxiliaries and specialities headquartered in Lahnstein near Koblenz, Germany. The family business was founded in Chemnitz in 1894 and is positioned across industries with different business divisions.

Our core business is the development, production and supply of tailor-made chemical auxiliaries for the leather, ceramic, textile and chemical fibre industries. Manufacturers of cleaning agents, personal care products, paints and coatings, lubricants and industrial applications all over the world trust in the company's chemical specialities as well.

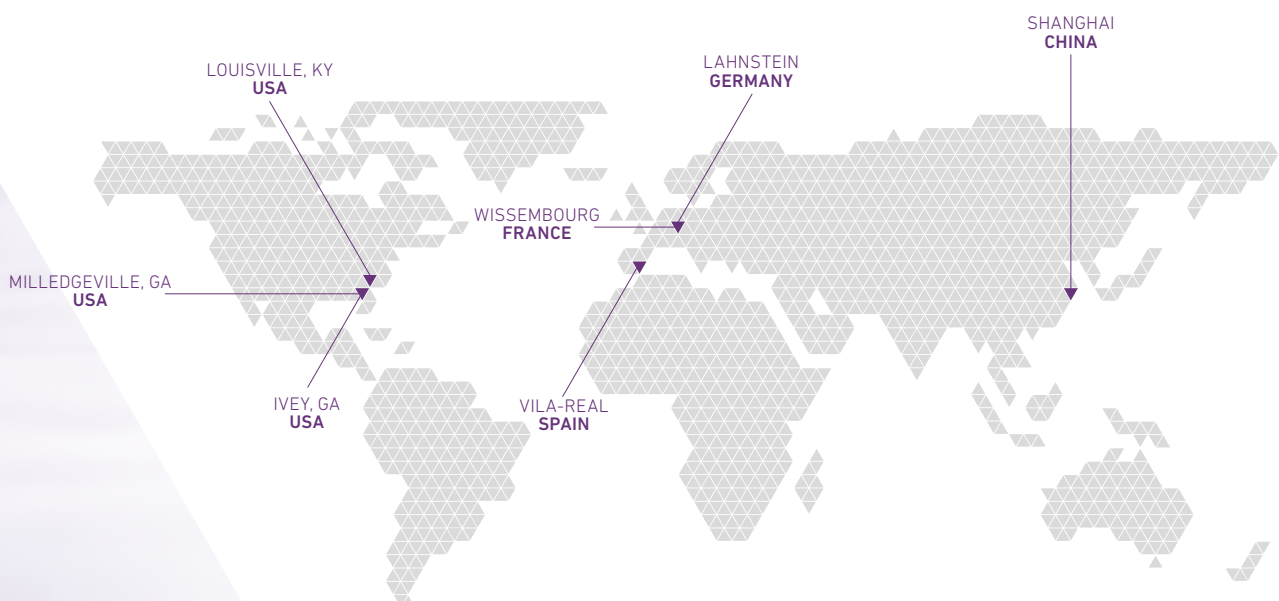
A FAMILY BUSINESS WITH A GLOBAL FORMULA FOR SUCCESS

The corporate group Zschimmer & Schwarz comprises 28 companies in 16 countries on five continents, 21 of which have their own production facilities. Our customers can always rely on a uniform quality standard worldwide and equally on the high service orientation of our local experts.

BRINGING YOUR IDEAS TO THE SURFACE

The portfolio of the Paints & Coatings Division serves a wide range of end-use applications from the industrial coatings and graphic arts sectors. We offer technologies and materials for the treatment and coating of surfaces such as wood, paper, metal, textile and concrete for best results. Innovative polymer technologies, tailored to the application and requirements of our customers, provide the necessary "plus" in the formulation. As specialists in environmentally conscious, water-based polymers, we offer optimised customer solutions with the highest standards of quality and cost-effectiveness, which are produced at our sites in Europe, North America and Asia.

Whether it's raw materials or tailored and ready-to-use customer solutions – we will help you find the right products. We will happily accompany you on the way to your formulation in order to jointly create added value for your customer.





TRUST IN OUR EXPERTISE

With a rich heritage of over ten years of technology and innovation, coupled with continued investment in research and development, Zschimmer & Schwarz's SYNTRAJET brings a diverse range of products and expertise to the food-contact ink market.

From the most vibrant and rich colours to the creation of customised formulations, SYNTRAJET ensures colour consistency across production runs and offers a range of ink options and viscosities suitable for different printing systems.

Whether it's for direct food packaging, labelling or other food-contact applications, SYNTRAJET is your trusted partner in bringing colour to life while maintaining stringent safety standards.

VALUES THAT DISTINGUISH US

▶ Regulatory compliance

Adherence to industry standards and certifications, providing peace of mind to manufacturers and consumers regarding ink safety

▶ Colour vibrancy

Ability to produce vivid and rich colours, enhancing product aesthetics and appeal

▶ Custom formulations

Capacity to create tailored ink formulations to meet specific printing requirements and substrate compatibility

▶ Versatility

Compatibility with various printing methods and different substrates used in food packaging and labelling applications

▶ Durability

Resistance to fading, smudging or transferring onto food items, ensuring printed designs remain intact and legible

▶ Environmental considerations

Offerings of eco-friendly ink options with reduced environmental impact, catering to sustainability-conscious businesses

OUR COMMITMENT FOR YOUR SUCCESS

- ▶ Worldwide individual and customised assistance by specialised technicians
- ▶ Research & Development centres in Germany, Italy and Spain
- ▶ Consideration of the complete workflow to apply digital printing in a production process – with our focus on design selection, colour management and required pre- and posttreatment



PRODUCT RANGE

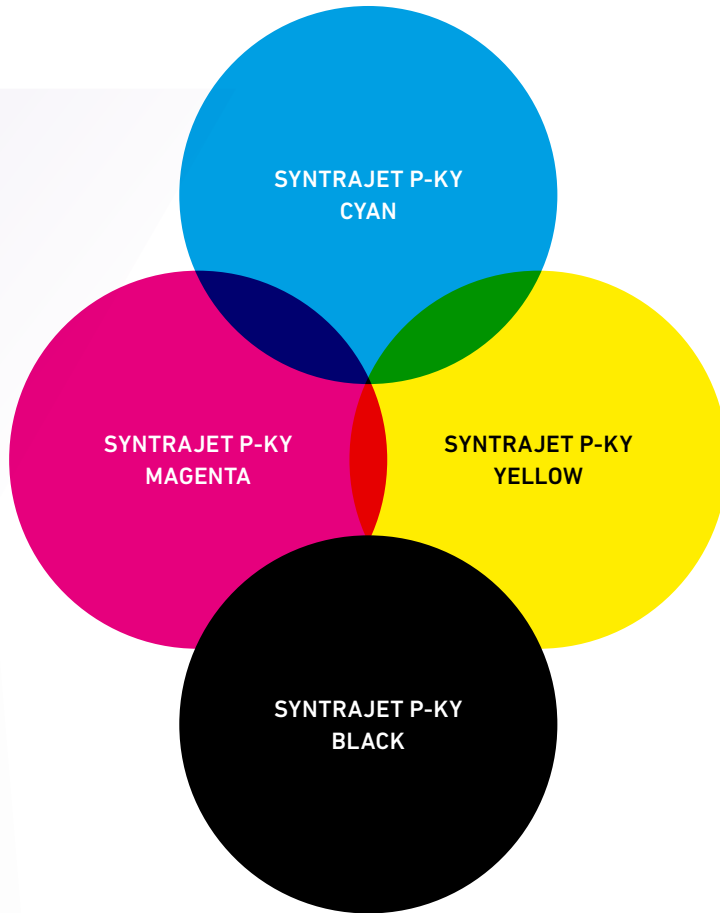
► **SYNTRAJET P-KY**

For low- and medium-viscosity printheads (4–7 cps);
market application: napkins, corrugated packaging,
food packaging.

This colourful range is completed by:

► **SYNTRAJET PRIMER**

► **CLEANER PE**



PRINTHEADS

WHICH INK FOR WHICH PRINTHEAD?

PRINTHEAD MANUFACTURER	PRINTHEAD MODEL	LOW-VISCOSITY INKS (3–4 CPS)	MEDIUM-VISCOSITY INKS (6–8 CPS)
FUJI DIMATIX			
	DIMATIX SAMBA	▲	
EPSON			
	S800-A1	▲	
	L1440-A1	▲	
	I3200-(4)-A1/I1600-A1	▲	
	S3200-A1	▲	
	S3200-A3		▲
	D3000-A1R		▲
	DX4 & DX5	▲*	
	DX7	▲*	
KONICA MINOLTA			
	KM512i		▲
	PANASONIC (UH-HA810)		▲
	PANASONIC (UH-HA820)		▲
	KM1024ISAE-C	▲	▲
	KM1024IMAE-C	▲	▲
KYOCERA			
	KJ4B-YH		▲*
	KJ4B-QA		▲*
	KJ4B-0300		▲*
RICOH			
	GEN 5MF (MH5421MF)		▲
	GH2220		▲
XAAR			
	5601		▲

* Performance tested internally and externally

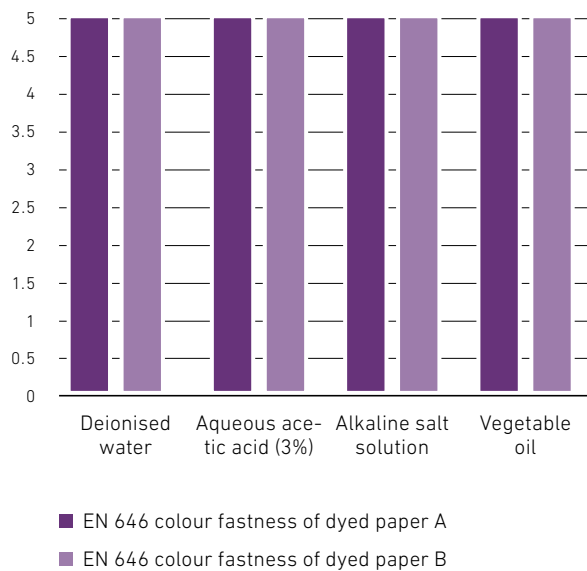
INK PROPERTIES

SYNTRAJET P-KY

pH	7–8
Viscosity mPa*s @ 25 °C	4.0–6.5
Surface tension mN/m @ 25 °C	36–38
Density g/l	1.05–1.15
Food-contact labels	Regulation 1935/2004 LFGB BfR recommendation XXXVI Swiss Ordinance (Annex 10) Nestlé Guidelines
Jetting temperature	20–32 °C (depending on specific setup)
Shelf life (under recommended storage conditions)	12 months



COLOUR FASTNESS FOR DIFFERENT TYPES OF PAPER AND PARAMETERS



SYNTRAJET P-KY reaches the maximum level of colour fastness for each type of paper and parameter.



Chemistry tailor-made

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