



Digital Printing Inks

Taking Inkjet Inks & Coatings to a New Level

Marabu

Your proactive partner for printing inks



Marabu is a world-leading manufacturer of screen, digital and pad printing inks. The company is headquartered near Stuttgart, southern Germany – a region renowned for its pioneering technology and engineering prowess. For over 60 years, we have been developing inks that have repeatedly raised the bar for both industrial and graphic applications.

In conjunction with our international subsidiaries and selected sales partners, Marabu offers high-quality inks in over 80 countries. For us, success is all about helping our customers achieve efficient production processes. That is why our focus is squarely on quality, not quantity. And on developing tailor-made answers to specific needs – creating made-to-measure inks that enable significantly higher productivity and tangible cost savings. To this end, we also offer comprehensive technical support and practical training.

As a chemicals company, we understand the need to protect people and the environment. Moreover, Marabu has always been committed to business sustainability and we have consistently put these principles into practice.



Marabu – facts and figures

- Founded in Stuttgart in 1859
- A family-owned business
- 13 subsidiaries worldwide
- Production sites: in Germany (Tamm and Bietigheim) and USA (Charleston)
- 490 employees worldwide
- Exports account for 80% of sales
- Certification to ISO 9001 (1995), ISO 14001, Sony Green Partner (2003)
- Member of EuPIA, CEPE, ESMA, BVDM

Marabu inkjet inks

Our experience is your competitive advantage

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03



In the world of digital printing, it is essential to find a complete solution, and one that is tailored to the task in hand. To this end, Marabu offers combinations of inkjet inks, primers and liquid coatings for users and original equipment manufacturers (OEMs). We leverage our experience as a printing ink manufacturer to develop new, and even better inkjet inks and coatings. Innovation is also driven by our close cooperation with research organisations, universities and suppliers – resulting in continually better products for our customers.

Total reliability with Marabu inkjet inks

Our development team takes a hands-on approach to all aspects of each and every product, from the initial choice of raw materials through to rigorous practical trials. We guarantee the specified physical and chemical properties of our inks, and the print characteristics – which are aligned with the printing system. This allows us to provide our customers with a warranty that covers all printer parts that come into contact with ink. A high degree of standardization in production and thorough in-process quality checks ensure consistently high quality, and ensure the best-possible print and coating results – day in, day out.

The right ink for each and every printhead

Our goal is to develop the best possible ink for the corresponding inkjet printhead – leveraging our specialist knowledge as an ink manufacturer and our deep understanding of the specific technological demands of digital printing. The results are outstanding inks of unbeatable quality – made in Germany.

Solutions for almost any application

Solvent-based, UV-curable and water-based inkjet inks – for flexible, rigid and textile substrates, and formats ranging from wide to super wide. With Marabu, you will find the right solution for almost any task, and any printer type. Moreover, we offer innovative liquid coatings for priming, finishing or protecting your print results.

Our focus is on you, the customer

Marabu delivers tailored, end-to-end solutions to your challenges. That means first-class product quality, combined with expert and comprehensive advice and support. Whether high-volume standard production or very special one-off requirements – you can count on us to stay the course, from the initial idea all the way to the finished product. That is what the Marabu commitment to customer satisfaction is all about.

MaraJet

Solvent-based inkjet inks for large formats

MaraJet inks feature excellent adhesion on a broad range of substrates – and are the industry benchmark for brilliant large-format digital printing. Featuring a broad colour gamut, crisp dot definition and exceptional light fastness, e.g. for long-term outdoor use. In addition, they offer outstanding scratch resistance and chemical resistance.

Exceptionally user-friendly

During the production of MaraJet inks, we use mild, low-odour solvents with lowest possible classification. These inks also strike the right balance between preventing nozzle clogging and ensuring rapid drying, and are suitable for a variety of production volumes. MaraJet inks are available in one-litre containers with the corresponding bulk systems, or in cartridges, or in five-litre containers for super wide format applications.

Change-over without re-calibrating

MaraJet inks allow easy change-over, eliminating the need to re-profile the printer. For this reason, ink properties are precisely aligned with the requirements of the specific printhead during the development phase. The ultra-fine pigment guarantees superior printhead function and service life. And, of course, first-rate results – time after time.



Digital printing makes a bigger impact with MaraJet

MaraJet inks are ideal for large-format printing for indoor and outdoor applications.



Wide format Sample applications:

- Banners
- Vehicle wraps
- Posters
- POS displays
- Coated textiles
- Exhibition decoration

Business was usual.

M JK 2834

Einer muss in Führung gehen.
Der neue BMW 5er.

BMW Group

**Super wide format
Sample applications:**

- Scaffold sheeting
- Large-format banners
- Stage decorations
- Vehicle advertising
- Backlit displays

UltraJet

UV-curable inkjet inks for rigid and flexible substrates

Each type of inkjet printer has its own requirements when it comes to inks. Flat-bed printers demand the best adhesive properties and high durability. Printers for both rigid and flexible substrates require the right balance between good adhesion and flexibility. With UV roll-to-roll printers on the other hand, it's all about flexibility. The UltraJet product line offers the right ink for each and every printer type. What they all have in common are brilliant colours and a broad colour gamut. Moreover, they boast excellent printing properties and outstanding durability in outdoor use.

Always a step ahead

UltraJet includes a comprehensive portfolio of additional products, such as special pigments, white, and varnish. And in addition to inks for conventional UV curing, we supply state-of-the-art UV LED curable products. What's more, we offer complete solutions for the challenges associated with substrates such as glass, wood composites, metals and certain plastics: UltraJet inks, in combination with Marashield primers and liquid coatings, ensure long-lasting, high-impact results.

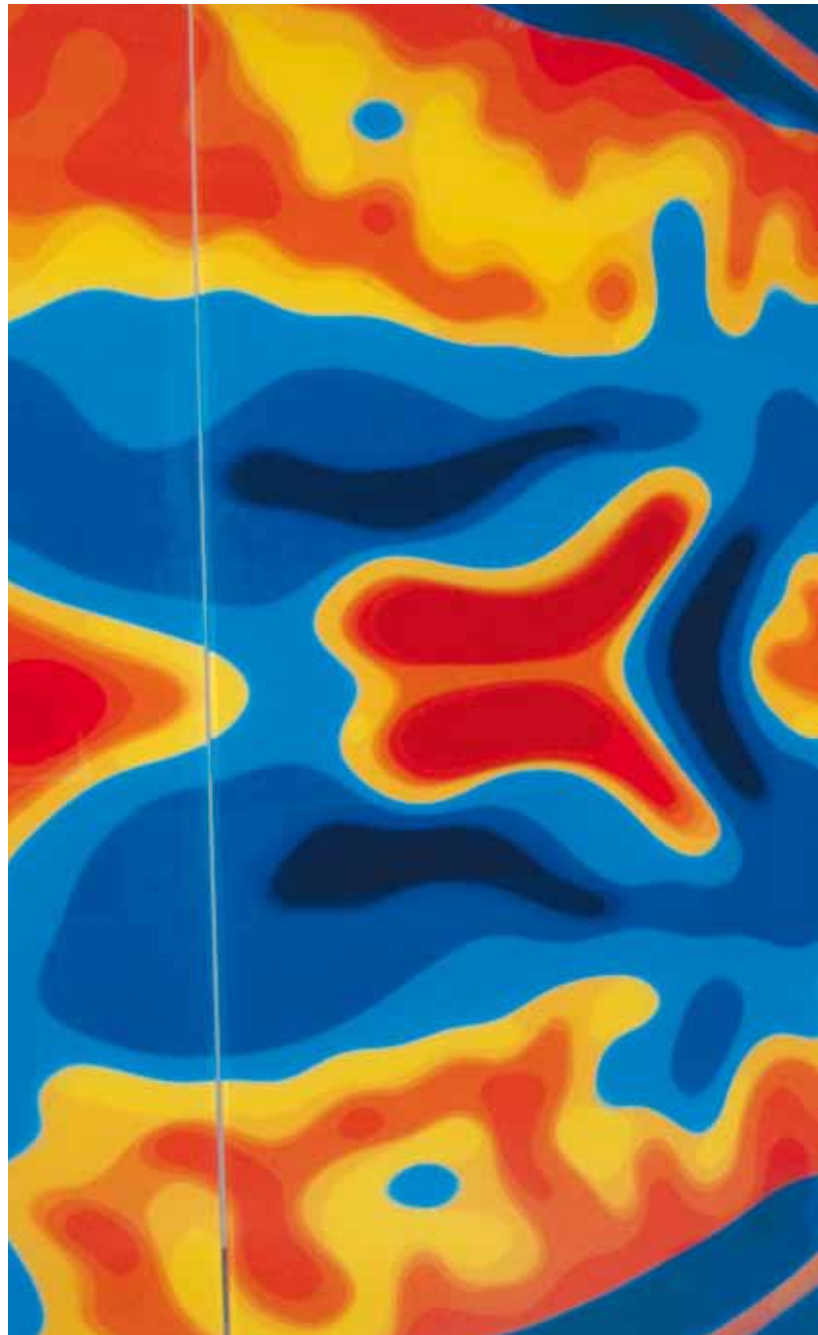
An experienced partner for industrial applications

Marabu's proven knowledge of analogue printing is an extremely valuable asset when it comes to industrial applications. We have the skills to provide tailor-made answers to each customer's needs. And through extensive testing, we have a thorough understanding of the specific challenges of diverse substrates. As a result, we can guarantee compliance with all essential properties, such as adhesion and scratch resistance.



Sample industrial applications:

- Glass, wood, metal, plastic





Sample graphic applications:

- Signage
- Exhibition decoration
- POP/POS displays
- Backlit displays



TexaJet

Water-based inkjet inks for textile applications

As is the case with screen printing, water-based inks are the preferred choice for digital printing of textiles. Traditional reactive, acid and disperse textile inks require sophisticated pre- and post-treatment – knowledge that often only textile specialists possess. In graphic digital printing houses these skills are less common. With sublimation inks such as TexaJet post-treatment is relatively simple. These inks offer digital printers the flexibility they seek for a broad range of commercial textile applications on pre-treated polyester.



Sample applications:

- Soft signage
- Banners
- Flags
- Sportswear & Apparel
- Fine-art prints

2 in 1 – the hybrid sublimation ink

For water-based textile printing inks, Marabu offers the ideal entry-level solution based on a new generation of products: our hybrid sublimation inks are ideal for both conventional transfer and direct printing on pre-treated polyester fabrics. The inks deliver outstanding results on all systems employing Epson printheads. A deep, rich black, paired with intense colours, ensures brilliant print quality and an impressive colour gamut. The wide variety of applications includes all textiles with at least 60% polyester and rigid materials pre-coated with polyester.



What do you do?

Marashield

Primer, finishing, protection – liquid coatings

Liquid coatings were originally designed to protect printed substrates from chemical or mechanical damage. But they can be put to many other uses. Marabu offers two different technologies: Marashield UV (UV-curable) and WA (water-based).

Marashield UV: a host of new possibilities

Our new UV-curable liquid coatings offer entirely new possibilities to users who employ flat bed and roll-to-roll digital printers for graphic and industrial applications. UV primers enable them to master difficult substrates, such as glass or polypropylene. The coatings are applied as finishes when the focus is on creating visual effects, such as high gloss or velvet matte. Protective properties are key when materials used outdoors need to be extremely light-fast or highly resistant to chemicals.

Marashield UV: more than transparent coatings

The Marashield UV product line can do much more than provide a transparent coating, thanks to opaque white and opaque custom colours based on the Pantone system, as well as our special-effect inks.



Marashield UV and WA give you high-quality coatings in a class of their own.





Marashield WA: reap tangible benefits

Water-based protective coatings are a smart alternative to conventional laminating films for flexible substrates. Marashield WA from Marabu provides made-to-measure solutions for vehicle fleet graphics, self-adhesive films, fine-art prints, and much more besides. Perfectly matched coatings and inkjet inks, and roll-to-roll coatings provide an automatic workflow, delivering superior results and significant savings.

Marashield UV and WA coatings – the benefits in brief:

- Lower material costs: liquid coatings are far less expensive than laminating films.
- Ideal for outdoor use: with a high-quality sandwich structure comprising film, ink and coating, confirmed by outdoor and DIN-certified weathering tests.
- Superior results: whether glossy or velvet matte, our coatings provide even coverage without orange peel effect.
- Lower process costs: liquid coating by means of roller coating eliminates the need for time-consuming post-print trimming.
- High-quality specialists: products specifically designed for each application instead of multi-purpose coatings of mediocre quality.
- Consistent quality: automated application for reproducible results on an industrial scale – on both rigid and flexible substrates.

Research and development

Always thinking ahead

When it comes to quality and productivity, our inks and liquid coatings raise the bar every time. This process of continuous improvement is based on more than 60 years' in-depth expertise and experience. And it is complemented by our proactive philosophy of "thinking ahead". That means that we regard each and every job as a new challenge – and so we strive to develop solutions that truly fulfil your specific needs.

Quality begins with raw materials

We leave nothing to chance – starting with the suppliers of our raw materials. Long-standing, reliable partnerships ensure that only the best, purest raw materials go into our inkjet inks. And our inks are manufactured to the strictest tolerances. In other words, they are products that deserve the label "Made in Germany".

Designed for real-world needs

Our inkjet inks are the result of a multi-stage process. Developers, engineers, and product managers all play a part. In addition, selected pilot customers are involved from the beginning. Marabu inks are subjected to numerous tests to verify that they can meet real-world requirements. Only then are they good enough for our customers.

Drop analysis

We use high-speed cameras to photograph, measure and assess picolitre-sized drops during the printing process.

Achieving top quality, step by step



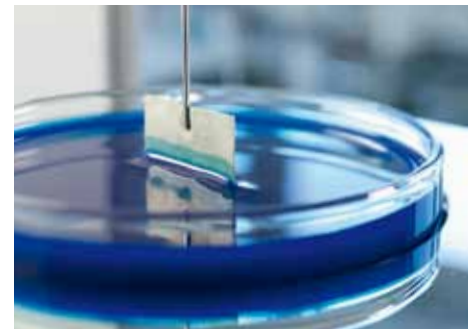
Dispersion

Our state-of-the-art production equipment, from leading bead mill manufacturers, delivers extremely finely dispersed pigments – measurable in nanometres. This guarantees perfect results every time – for smooth, trouble-free printing processes.



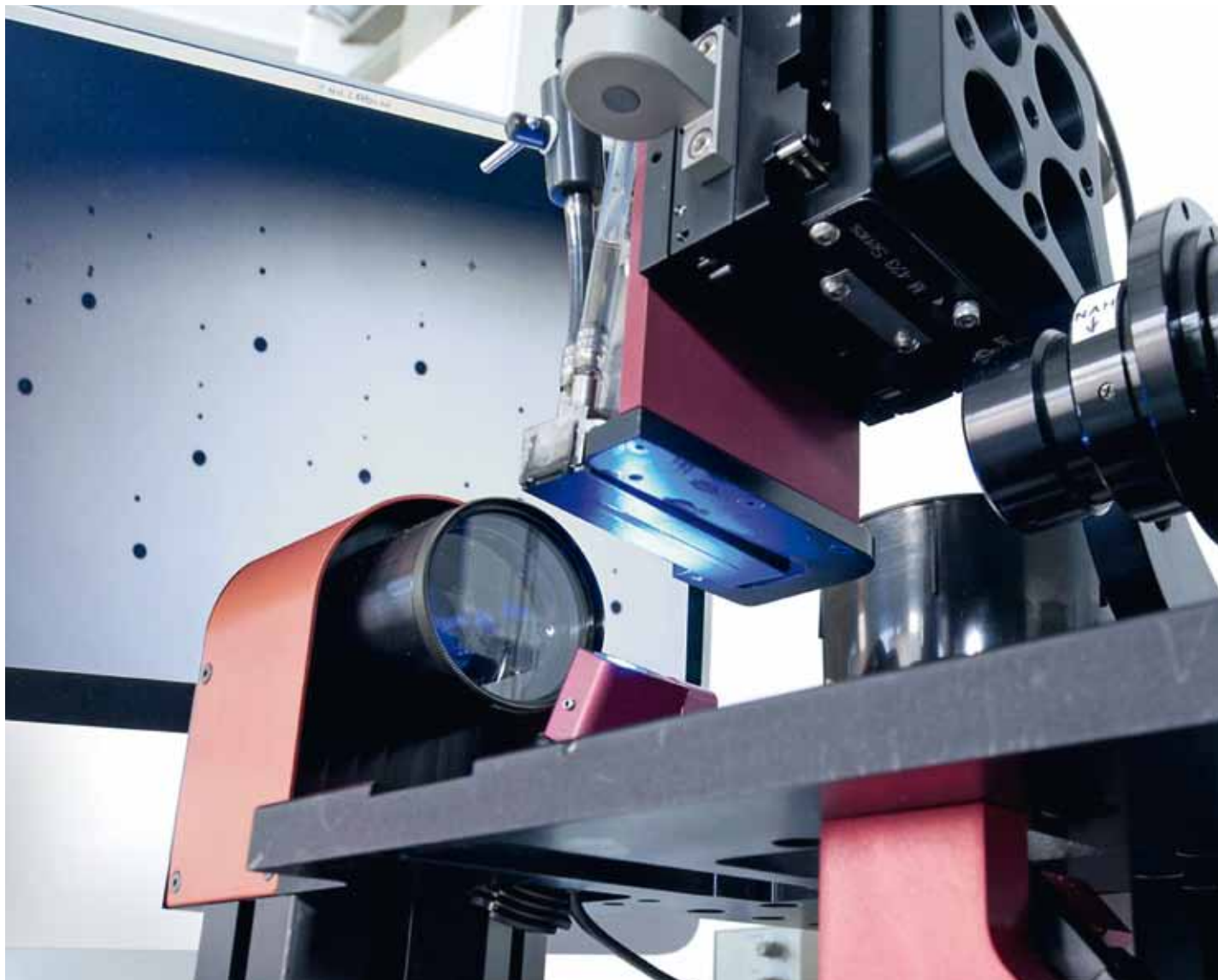
Fine-tuning

Through a combination of multiple analytical methods and devices, we ensure that the physical and chemical properties of our inks are geared to the precise requirements of your printhead.



Surface tension

Surface tension is an essential factor in the formulation of inkjet inks. Dynamic and static surface tension are key to perfect drop formation.



Quality control

Marabu inkjet inks offer exceptionally consistent quality across all batches and in line with precise specifications. All inks are passed through a multiple filtration process, and feature exceptionally high sedimentation stability.



Long-term stability

Thanks to the latest laser diffraction analysis techniques, we can closely observe stabilisation of pigment dispersions. This means that we can guarantee long-term stability for one year.



Light-fastness and weathering

Marabu tests long-term effects using simulated accelerated weathering according to DIN standards, as well as natural weathering under real-life conditions. Our extensive experience guarantees robust products that are ideal for outdoor applications.

Service

Partnership: more than a buzzword

We aim to give our customers end-to-end solutions – complete answers to their challenges. That means top quality products combined with professional, customer-specific advice.

Support right from the start

We listen to what you have to say, and we look at your imperatives from your perspective. We work hand-in-hand with you to deliver the ideal solution. And we are there when you need us: you can contact us anytime and anywhere. And you can be sure of rapid, reliable

delivery. What's more, we offer a portfolio of services that set the benchmark for the industry – and make your job a whole lot easier.

Only experts sell Marabu inks

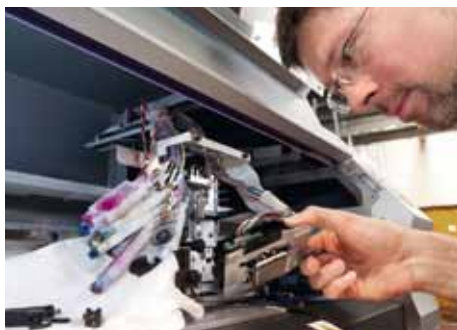
We sell our inkjet inks exclusively through our own sales organisation and carefully selected distribution partners. Marabu inks give you peace of mind twice over. Firstly, because we do not just offer you inks, but also on-site advice, and secondly, through direct support right here at the Marabu headquarters.



All services at a glance

Technical support

Small details can make a big difference! Our experienced professionals offer technical advice and support on your premises – to help you get the right results.



Technical Hotline

Friendly, expert advice is just a call away: no matter what question or problem you have. Feel free to contact the specialists at our facility in Tamm, Germany, any time by telephone or e-mail.



Colour management

Get a profile from the professionals: we will help you develop an ICC profile and provide you with the relevant colour profile for Marabu inkjet inks. The result: a perfect match.



Training

Training is the key to success. At our training centre, with its state-of-the-art equipment, you can acquire both theoretical and hands-on skills. Learn what you need to know for your specific tasks.



Marabu test print service

If you want to be totally sure before you begin production, we can conduct tests to verify our inks and coatings are perfectly compatible with your substrates.



Weathering tests

Everything Mother Nature can do, we can recreate in our lab: thanks to simulated accelerated weathering, we can test products – including the original substrate, ink and coating – destined for heavy-duty outdoor deployment.



Marabu

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