



# Digital Printing Inks

Taking Inkjet Inks & Coatings to a New Level



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.

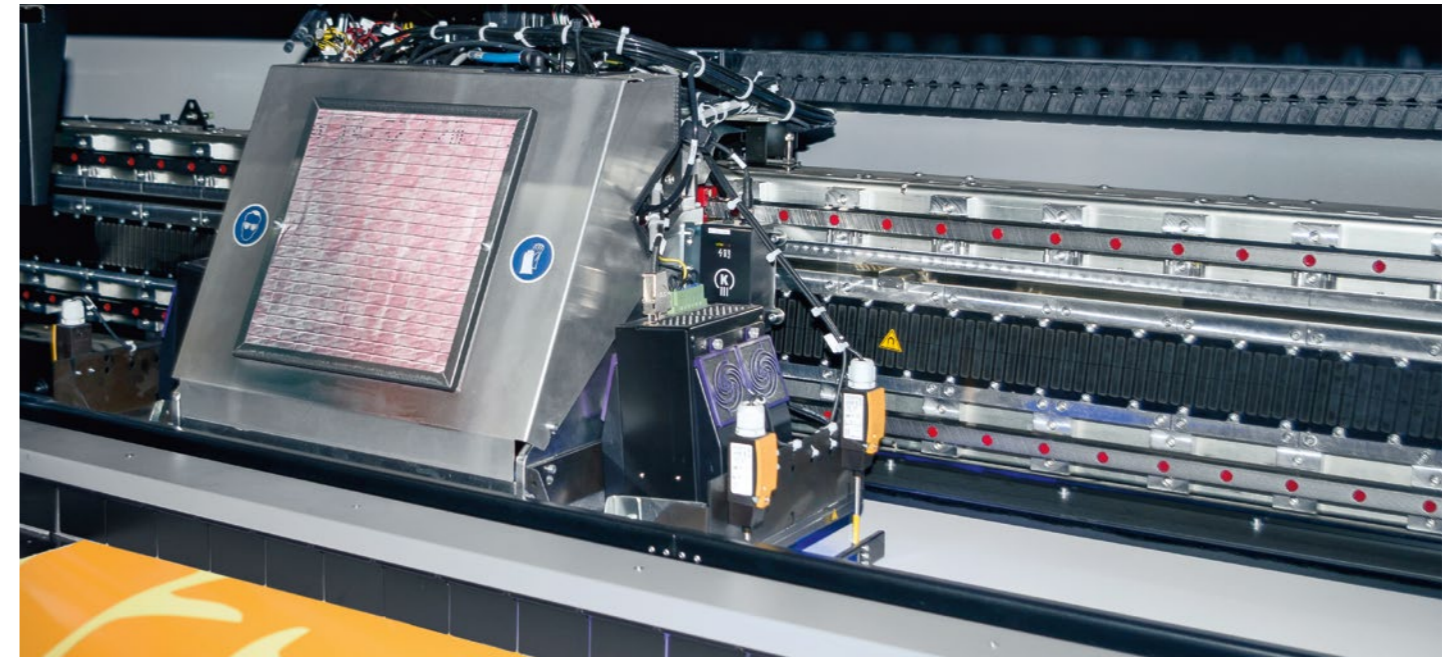
In conjunction with our international subsidiaries and selected sales partners, Marabu offers high-quality inks in over 80 countries. For us, success is all about helping our customers achieve efficient production processes. That is why our focus is squarely on quality, not quantity. And on developing 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 chemical 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
- 15 subsidiaries worldwide
- Production sites: in Germany (Tamm and Bietigheim), USA (Charleston) and Paraguay (Ciudad del Este)
- 500 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



#### Pioneering solutions for excellent results

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.

#### Unbeatable quality – made in Germany

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 inkjet printing. 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.

## Content

Our Products and Services	4
Marajet	6
UltraJet	8
MaquaJet	10
TexaJet	12
Marashield	14
Industrial Applications	16
Service	18
Research and Development	19



#### Product Range:

You can find the full range of Marabu digital printing inks in the product overview on our website.

# Our Products and Services

## Standing out from the crowd

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. Whether volume production or special requests, we accompany you from the initial idea to the finished product. This means unique customer proximity.

## What makes Marabu your trusted partner?

Marabu is certified to DIN EN ISO 9001 and DIN EN 14001.

### Unparalleled expertise for all applications; leading-edge research and development

Inkjet solutions for industrial applications? Customized jobs and high production speeds? Always one step ahead of the market, Marabu has the right answers. Our ongoing research and development enables us to design innovative products to meet the very latest real-world challenges of our customers.

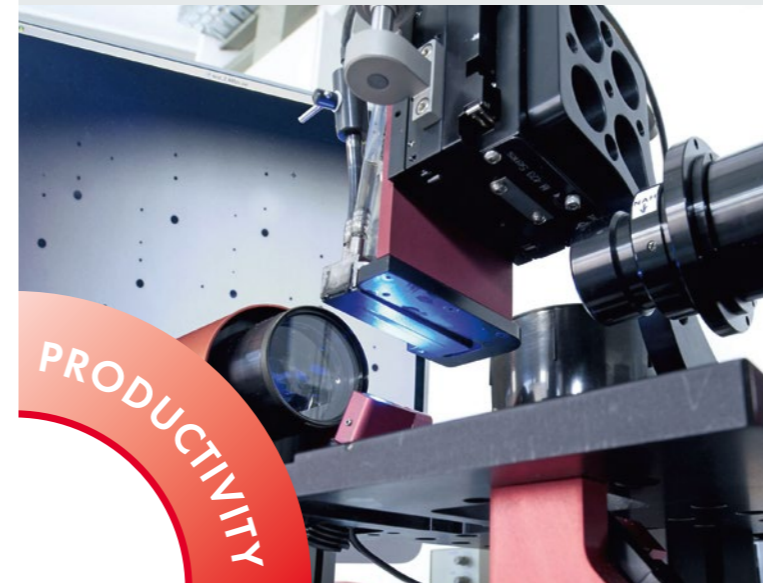


RESEARCH

PRODUCTIVITY

### Boosting productivity and efficiency

Equipment downtime harms productivity and impacts your bottom line. Reducing unnecessary costs is a must, and our high-quality printing inks can make all the difference. Benefits include highly reproducible printing results and more energy-efficient drying. All in all, Marabu inks allow you to work faster, with greater precision, greater uptime, and with lower power consumption.



### Environmental protection and product safety

Marabu is committed to a better future for our planet. Since the founding of our company, corporate responsibility – particularly environmental protection – has been at the heart of our business. We employ a dedicated environmental protection officer and operate a department devoted to ensuring product safety. We abandoned the throwaway mentality a long time ago and implement the principles of sustainability across our organization. Plus, we systematically reduce hazardous substances in our products, making our standards among the highest in the industry.



ECOLOGY

SERVICE

### Expert advice and assistance – wherever you are

Marabu's extensive international network of subsidiaries and partners in over 80 countries means you can count on first-rate support, wherever you are based. By turning to a local contact who speaks your language, you can leverage Marabu's in-depth industry experience to enhance your printing processes.





# 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 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 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
- POP/POS displays
- Coated textiles
- Exhibition designs
- Sticker

#### Super wide format Sample applications:

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



More Information:  
MaraJet



# UltraJet

## UV-curable inkjet inks for rigid and flexible substrates

Each type of inkjet printer has its own requirements when it comes to inks. Applications on 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 high performance UV-LED-curable products. What's more, we offer complete solutions for the challenges associated with substrates such as glass, wood composites, metals, certain plastics, container printing and interior design: 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, optimized through a variety of custom colours that can be created on the basis of the existing UltraJet colour shades. 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 applications:

- Glass
- Wood
- Metal
- Plastic
- Signage
- Exhibition decoration
- POP/POS displays
- Backlit displays
- Container printing
- Interior Design



More Information:  
UltraJet



# MaquaJet

## Water-based inkjet inks for environmentally friendly applications

Safety, health, and environmental issues in the applications of Marabu inks are tightly coupled with responsibility towards resources during product development and manufacturing. The water-based inkjet product line MaquaJet fulfills all these demands while delivering superior print quality on a broad range of substrates. The sustainable ink delivers brilliant results, and represents the true alternative for graphical indoor and outdoor applications thanks to its high-grade pigmentation.

### Advantages for the environment and the user

Thanks to its gentle formulation, no solvent emissions pollute the air during the printing process. Therefore, the usage of a venting system is not necessary. Furthermore, the water-based ink system is non-flammable, and not classified as hazardous good which allows safe storage. In addition, MaquaJet offers a high recycling potential.

### Quality meets experience

MaquaJet features excellent quality within market-leading tolerances. Every batch fulfills the highest requirements, and exhibits very good stability against sedimentation. The flexible ink film allows easy processing. Additionally, the high colour density provides convincing results using less ink. Thereby, your production efficiency is guaranteed: optimized material costs, constant quality, high print stability, and excellent post-processing opportunities fulfill the requirements for high-performance production.



### Sample applications:

- Signage
- Exhibition decoration
- POP/POS displays
- Canvas
- Stage design
- Posters
- Banners
- Coated textiles



More Information:  
MaquaJet



As is the case with screen printing, water-based inks are the preferred choice for digital textile printing. Traditional reactive, acid and disperse textile inks require suitable 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 DX-SHE and DX-STE 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.



### Direct, Transfer and Hybrid – Sublimation printing at its best

For water-based textile printing inks, Marabu offers solutions for various application techniques. Our hybrid sublimation ink TexaJet DX-SHE is ideal for both conventional transfer and direct printing on pre-treated polyester fabrics. The ink delivers outstanding results on systems employing Epson printheads. In contrast, transfer printing professional is TexaJet DX-STE. The specialized ink for transfer printing works well even on very thin paper, and is also optimized for Epson printheads. Both ink series include a deep, rich black. Paired with intense colours, it 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.



#### Sample applications:

- Soft signage
- Banners
- Flags
- Sportswear & apparel
- Fine-art prints
- Curtains
- Tablecloth
- Lamp shades



More Information:  
TexaJet



# 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 finishing 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 RAL system, as well as our special-effect inks.



#### Sample applications:

- Melamine
- Acrylic glass (PMMA)
- Glass
- Polypropylene
- Corrugated board

### 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.

#### Sample applications:

- Fleet graphics
- Self-adhesive foil
- Art-prints



More Information:  
Marashield



# Industrial Applications

## Extraordinary solutions for special requirements

Marabu offers personalized digital inks not only for graphical, but also for industrial applications. Thanks to years of experience in manufacturing printing inks, Marabu has gathered extensive expertise in developing made-to-measure solutions in this space. From functional and decorative liquid coatings to UV-curable, solvent- and water-based inkjet inks, Marabu's product range covers a wide spectrum of applications and can be adapted to your specific needs.

As a development partner, Marabu can identify new printing options and highlight innovative solutions for manufacturing. Plus, we can reengineer existing printing processes to maximize production efficiency.

### Custom-designed ink formulation

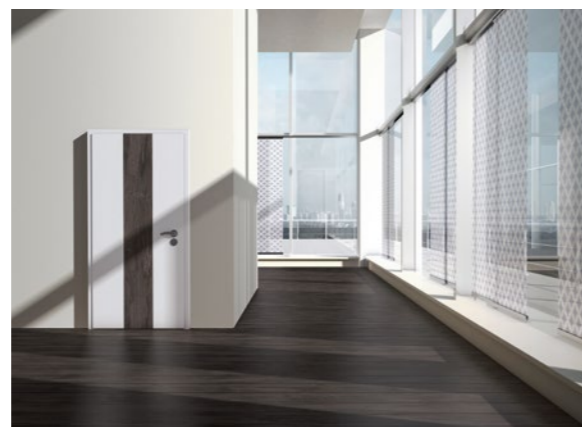
Whether printing on metal, plastics, textiles, glass, ceramics, wood, or other materials, Marabu's inks for industrial scenarios are developed in line with a clearly defined, customer-specific requirements profile. This takes into account the manufacturer and the model of the printhead, the properties of the substrate, the type of application, and the quality of the finished printed product. Thanks to a multitude of collaborations with different well-known printhead manufacturers, Marabu is capable of perfectly adjusting the ink properties to these parameters.

It is possible to control the ink's characteristics right from the start, for example resistance to chemicals and mechanical strain, light fastness, opacity, gloss, colour brilliance and odour - in addition to its compatibility with downstream processes such as bending, machining, welding, or moulding. The result is a solution designed to work perfectly with the printing system, giving customers an edge over the competition.



### Printing on packaging

Inkjet printing directly onto PET or glass bottles opens the door to completely new possibilities in packaging designs.



### Decorative surface finishing

Digital printing ensures fully reproducible results and makes it possible to frequently switch designs from project to project, without the need for costly and time-consuming machine changeover (e.g.: high-end wood-look effect).

### Reproducible solutions for lasting partnerships

By means of the detailed requirement profile and the developed ink system, we provide an excellent batch-to-batch quality. Our production is up-to-date, and fulfills therefore the precondition for high-quality digital printing inks to be produced sustainably within market-leading tolerances. Thereby, it is most important for us to guarantee an economic digital printing system which ensures a long-term transparent and reliable production process; so that you can count on projectable printing results, and deepen your customer relationships.

### Custom colours

What is standard for screen and pad printing, Marabu also provides for digital printing: custom colours. By mixing the existing shades within a colour range, a variety of custom colours can be created. Our Colour Matching Department fulfills them with customized effects and highest precision. It is another argument for using digital printing, especially when it comes to small or large customized jobs.



### Sample applications:

- Melamine
- Membrane switches
- Wood
- Splashbacks
- Metal and plastic housing
- Sport equipment
- Markings on electrical and household products
- Floors
- Wallpaper
- Textiles
- Container printing
- Glass/PET bottles



More Information:  
Industrial Applications



# Service

Expert advice and assistance – available globally and locally

When you partner with Marabu, you benefit from a unique combination of exceptional product quality plus expert advice and assistance. Our printing inks ensure maximum productivity and cost savings. Thanks to our global network of sales partners and subsidiaries, you have access to our extensive know-how no matter where you are based. You benefit from the greatest support at all times – including rapid and reliable supply to anywhere in the world.

## 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, by telephone or email.



## 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.



## Made-to-Measure Solutions

Our inks are the result of a multi-stage process. Developers, engineers, and product managers, all play a part.

# 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 they are good enough for our customers.

## 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.



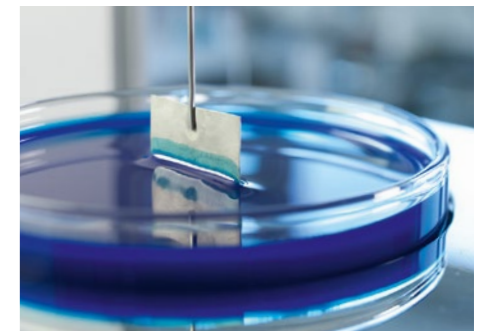
## Fine-Tuning

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 stabilization of pigment dispersions. This means that we can guarantee our customers the required long-term stability.



## 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 maximum application security.





Marabu

## Get in touch with Marabu

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