



Marabu

HIGH-QUALITY PRINTING INKS FOR INDUSTRIAL DECORATION AND MARKING

Welcome to Marabu at Inprint 2017

Marabu is the world-leading manufacturer of screen, digital, and pad printing inks as well as liquid coatings for industrial and graphical applications. The inks and coatings we produce meet the very highest standards and can be printed on a wide range of substrates.

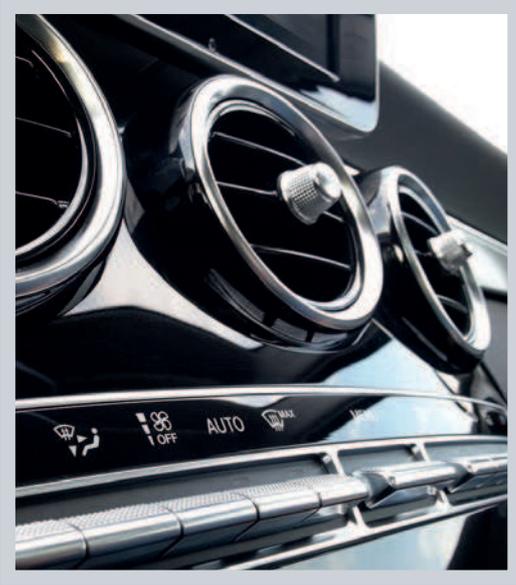
We look forward to meeting you:



**Hall A6
Booth 527**

SMART SOLUTIONS FOR THE AUTOMOTIVE INDUSTRY

Technical variety for the changing car cockpit



More and more displays are being used instead of usual dashboard elements. The application changes, and with it the requirements of the printing ink.

Screen and pad printing inks – for dials, switches or technical markings

- Pad printing inks: e.g. Tampa® Pol TPY and Tampa® Flex TPF
- Screen printing inks: e.g. Mara® Switch MSW, Libra Matt LIM and Ultra Plus UVP

Screen printing inks – for displays made of glass or plastic

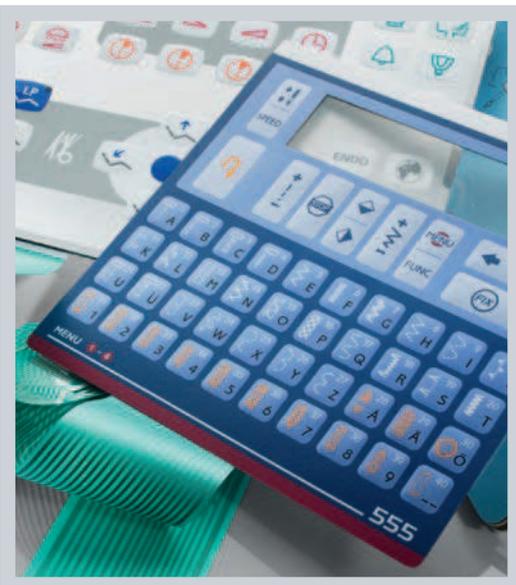
- Similar to the printing of touch panels for smartphones or tablets, Marabu offers suitable high-opacity inks such as Mara® Glass MG3C, Ultra Glass UVG3C and Mara® Glass MGL

Screen and digital printing inks – molded parts made of aluminium or plastics

- In addition to excellent adhesion and temperature resistance, very good formability and high surface hardness are required, e.g. Mara® Pur PU 911, Mara® Pol PY, Mara® Mold MPC
- Dual-cure screen printing varnish Mara® Cure HY for matte contrasts and gloss effects
- UV-curable digital printing inks for interior equipment, solvent-based digital printing inks for 2D and 3D surfaces of outdoor applications (e.g. aircraft fairing)

SCREEN MEETS DIGITAL

Generating Value Added for Industrial Printing



In order to satisfy all requirements of industry Marabu has developed a hybrid solution, consisting of screen and digital printing.

Digital printing inks – For the decoration of the PET material used to make the switch

- Usage of the Ultra Jet DUV-A ink system which is also compatible with screen printing
- This approach accelerates printer set-up, and enables short production runs and customization of the individual switches for each print job.

Screen printing inks – For the blocking layer

- The blocking layer is created in a subsequent step by means of screen printing – as digital printing still has its limitations in terms of opacity in special cases.
- Panel manufacturers can choose between the solvent-based Mara® Switch MSW system, with white, black and silver, or the UV-curable Ultra Switch UVSW system.

GLAS DECORATION

Exceptional Inks for an Exceptional Material



Screen printing ink Mara® Glass MGL

- Pure and highly intensive shades with high-gloss surface

Screen printing ink Ultra Glass UVGL

- No oven baking necessary, enormous energy time, and space savings

Relief varnishes Ultra Glass UVGL-RH/-RL

- For haptic effects and decoration

Press-ready silver UVGL 291

- Hochglänzende 2-Komponentenfarbe

Ultra Glass UVGL Primer - Hot Stamping in gold and silver

- Brilliant, high gloss gold and silver effects
- Hot stamping in combination with UV inks

Digital printing ink series Ultra Jet

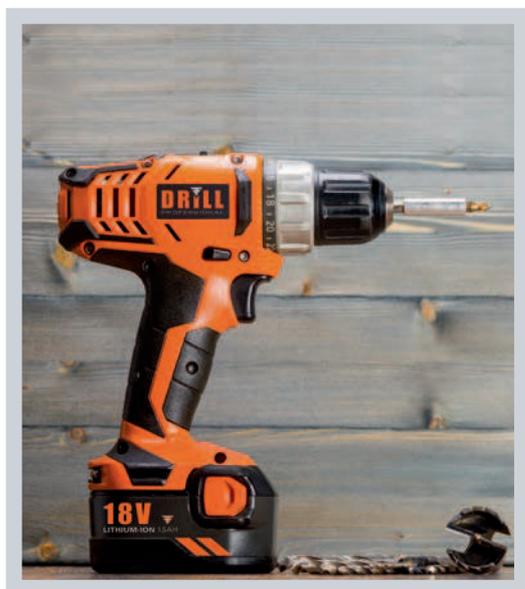
- Ideal for custom-printed glass backsplashes, window surfaces, glass worktops, etc.

Pad printing ink Tampa® Glass TPGL

- 4C process inks for photorealistic images on 3D glass objects

TECHNICAL MARKING

Precise Marking on Electrical and Household Appliances



Technical markings on audio, electrical, and household products must be resilient in the face of heat, exposure to chemicals and general wear and tear.

Screen printing ink Mara® Pur PU

- High-gloss, solvent-based 2-component ink

Screen printing ink Mara® Star SR

- High-gloss, solvent-based 1- or 2-component ink

Pad printing ink Tampa® Cure TPC

- UV-curable pad printing ink, easy to handle

Pad printing ink Tampa® Pur TPU

- Excellent adhesion on difficult materials

Pad printing ink Tampa® Star TPR

- Solvent-based, glossy 1- or 2-component ink

CONTAINER

Low-Migration Inks for Food Packaging



Inks must meet rising expectations in terms of their ease of use in the printing process, the final results – and safety. They are subject to strict quality audits that demonstrate low migration - safeguarding consumers from potential harm. Marabu has recently developed the new screen printing ink *Ultra Pack UVFP* based on the stringent standards of the food packaging industry.

Screen printing ink *Ultra Pack UVFP*

- Special selection and purity criteria of the raw materials: Compliance with the “EuPIA Suitability List of Photo-Initiators for Low Migration UV Printing Inks and Varnishes”, Part 1A, correspondent to the “Nestlé Guidance Note on Packaging Inks”
- Very good to handle in the production procedure
- Brilliant, high-gloss colours
- Excellent adhesion and durability
- Very high reactivity for rapid curing and high production throughput

PRINTING ON FRONT PANELS

Marabu Presents New Special Ink Series



The progressing digitalization is reaching our homes. Household appliances are networked with each other and can be remotely controlled via our mobile phones. For the technical operation on site, more and more devices require front panels that previously only had simple control buttons.

New special ink series *Mara® Panel MPA*

- *Mara® Panel MPA* offers unbeatable high-opacity white and a deep, non-conductive black which has been developed for printing on plastic (second surface) of the commonly used PMMA or PC materials.
- The decorative inks of the *Mara® Panel MPA* series have a very high electrical resistance, so as not to impair the functionality of the input system.
- Well-known manufacturers tested the resistance to water vapour and common cleaning chemicals.
- On request, special lacquers for metallic-looking silver-effects supplement the ink series.

INKS FOR SENSITIVE PRODUCTS

More Product Safety With Tested Ink Systems



The Tampa® Tex TPX system was developed specifically for textiles, and offers very high adhesion and high opacity in conjunction with a flexible ink. As numerous test prints and quality checks have now demonstrated, this bestselling pad-printing ink is also ideal for other, highly demanding tasks. The extremely carefully sourced, high-purity raw materials mean this line not only complies with the strict specifications of clothing manufacturers, such as "Adidas A01" and "Nike RSL", it also fulfills requirements for baby products, toys and packaging.

As a result, Tampa® Tex TPX is no longer restricted to prints on T-shirts, shoes and similar items. It is now perfect for other sensitive products, such as baby bottles, dummies (pacifiers), toys, and packaging for personal care products and foodstuffs.

Main characteristics of Tampa® Tex TPX

- Flexible ink film for full wearing comfort
- High opacity on coloured and dark materials
- Very good resistance to washing and ironing
- Easy processing for process safety and efficiency

WATER-BASED SPRAY AND BRUSH PAINT FOR SENSITIVE APPLICATIONS

Perfectly Suited for The Decoration of Toys



The need for environment-friendly and safe production processes leads to growing interest in water-based inks. Especially the toy industry requires a new approach.

Water-based spray and brush paint Maqua® Coat MAF/Maqua® Color MAC

- The water-based Maqua® Coat MAF basic shades are the basis for countless colour mixtures. These mixtures are made by adding the Maqua® Color MAC colour concentrates.
- It can be applied to non-absorbent substrates by airbrush, spray gun, or synthetic hair brush.
- For durable and long-lasting toy surfaces
- Virtually odourless, can be diluted and cleaned with water
- Suitable for applications compliant with the directive 2009/48/EG ("toys directive DIN EN 71/3")

„COLD-PEEL“ – DIGITAL TRANSFER PRINTING FOR TEXTILES

Texa® Jet DX-DTE Combines Advantages of Both Screen and Digital Printing



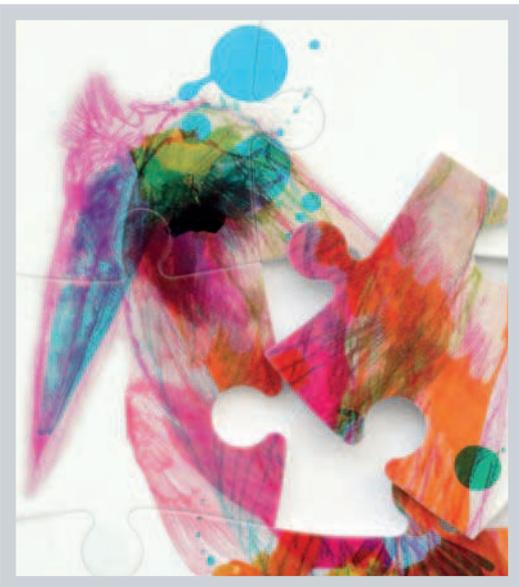
A recent example is the creation of a cold-peel process for digital transfer printing – with features that conventional screen transfer printing cannot match. For instance, it can be deployed for a large variety of fabric types. The new Texa® Jet DX-DTE digital printing ink based on pigmented resin boasts all the major advantages of transfer technology. The image is printed using the CMYK process onto a specially coated film, without the need for complex prepress work. Screen printing is only required for the white blocking layer. The final patches are produced by means of a heat press.

Advantages of the method

- The patches are extremely thin, ensuring the final result has a soft handle, and safeguarding the comfort of the T-shirt.
- When deployed on the Mutoh ValueJet 628, cost-effective and efficient small and mid-size production runs are possible.
- Highest washing resistance is guaranteed.
- Best method to create high-resolution images in bright colours.

NEW DIRECTIONS WITH WATER-BASED INKJET SYSTEMS

Digital Printing of Food Packaging, Toys or Wall Papers



Water-based printing inks are in greater demand than ever, which is why the market is reporting a great need to catch up. The focus is on digital printing on products that come into contact with skin or foodstuffs. In close cooperation with the industry, Marabu develops solutions for flexible packaging for foodstuffs, cardboard boxes, toys and digitally printed wallpapers.

Advantages of water-based inkjet printing-ink technology

- Flexible ink-film with perfect adhesion
- Very good mechanical resistance
- Targeted support in customized developments
- Marabu partners with its customers to develop solutions to specific needs, with a particular emphasis on water-based projects where biocompatibility is a high priority



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