



BERLAPRINT®

SCREEN AND PAD PRINTING INKS AND SPECIAL SYSTEMS

The product portfolio of the **BerlaPrint® system line** includes the latest screen and pad printing inks, compatible roller, spray and curtain coatings, marking inks and functional coatings for technical applications. These printing inks and special coatings from Berlac AG offer automotive-quality coating systems that provide outstanding levels of resistance and ultra-thin coat thickness for both interior and exterior applications.

TECHNOLOGICAL DESCRIPTION

The widest possible range of application technologies can be uniquely combined within the **BerlaPrint® system line**. Precisely targeted work goes into meeting the challenging demands this places on processability and compatibility and on the natural ultimate resistive qualities of the inks and lacquers. Depending on the task and project objective, our **BerlaPrint® products** are applied to parts, sheets or rolls, either singly or in combination using screen or pad printing and/or roller, spray or curtain coating processes and are then physically and/or thermally cured. After drying, and depending on the application, subsequent processes may punch or shape sheets or rolls to the desired geometry; this requires the system to have a high level of permanent plasticity. Depending on the final application, components can subsequently be back-moulded with plastic. This involves brief exposure to temperatures in excess of 200°C which the printing inks are able to withstand without suffering damage. Other requirements, such as laser marking, printability, heat resistance to 650°C and similar extreme conditions can be satisfied on a case-by-case basis. Our systems are coordinated in such a way as to ensure limitless possibilities for overprinting and/or underprinting the inks and lacquers, thus meeting the demands frequently made of an online printing process. Partial post-printing, even on cured layers of lacquer or paint, can be achieved using pad printing or digital marking processes.



Screen printing on aluminium: punched, deep-drawn, back-moulded

FIELDS OF APPLICATION

The screen and pad printing ink systems can be used on a wide variety of metals and plastics, but also on primers, coatings, ceramic surfaces and glass and can be subsequently coated, shaped or back-moulded in post-processing. The method of application and the thin coating thickness compared with spray coating offer considerable potential for savings and make decoration and protective coating possible without loss of ink or lacquer. The very high pigmentation of the printing inks enables colour shades to be reproduced with total accuracy, frequently on coloured or dark substrates as well. The top-quality ingredients, selected in accordance with physiological, ecological and technical criteria, are targeted towards applications in the technical and industrial segments, where durability and high resistance levels are called for. In addition to covering a wide range of applications in the automotive industry, these systems are also suitable for use in the medical sector thanks to their high quality and biocompatibility. They also meet requirements for wet strength and brilliant appearance in glass applications. In addition to their visual properties, the ink systems also offer mechanical and chemical resistance to cleaning agents and processing media in the household and consumer goods segments. Finally, all these products can be adjusted to include functional capabilities that provide tactile, abrasive, easy-to-clean or antibacterial functionality as required.



BERLAC
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Lacquers and Effects

YOUR ADVANTAGES AT A GLANCE

- **Various methods of application:** screen/pad printing, roller, spray or curtain coating, digital marking
- **User-friendliness:** available either as a 2-component or a 1-component system
- **Reliable and reproducible application method:** extremely low QC tolerances
- **Broad application spectrum:** suitable regardless of component size or geometry and for a wide range of materials and printing substrates
- **Potential for individualisation:** wide range of colours, effects and functionalities possible
- **Highly-resistant coating solution:** complies with German automotive specifications (interior and also exterior uses depending on method of application), factory testing standards for household appliances and consumer goods, children's toys, interior glasswork and electronic components

PRODUCT PROFILE

Tested in accordance with / on:	TL 226 / TL 211 / DBL 7384 Aluminium, plastics, coatings
Substrates:	Metals, plastics, coatings, glass
Layer build-up:	Single or multiple layers
Systems:	711./750./752./784.---.100 plus special systems
Colours:	Unlimited range of possible colours
Special characteristics:	<ul style="list-style-type: none"> • Above-average scratch and abrasion resistance and excellent resistance to a wide range of chemicals • Long-lasting forming flexibility. No stress-whitening • High temperature resistance
OEM approved for:	Interiors: BMW, Mercedes, Audi Exteriors: BMW, VW, awaiting approval

BERLAC AG – COATING SYSTEMS TO GIVE YOUR PRODUCTS STRIKING ADDED VALUE

The production of premium-grade special and effect coatings as well as printing inks for decorative and functional applications on plastic, chromium-plated and metallised substrates, carbon fibre composites, metal and glass has been our speciality since 1926.

Whether you are an industrial contract coater, a tier-one or tier-two supplier coating in-house or an OEM, you will find us your ideal development partner for innovative niche solutions that call for interdisciplinary knowhow and precise adjustment to the processes of all your supply-chain partners. We accompany your innovative surface projects in close collaboration every step of the way from initial concept to technical fine-tuning for series applications on site.

Our comprehensive expertise and experience in manufacturing a product portfolio that ranges from primers through printing inks enables us to supply ideally coordinated integrated solutions (thermal and UV-curing) in the realm of solvent-based and waterborne spray coating systems and industrial screen and pad printing inks. Our innovative solutions for demanding coating tasks – also available in very small batches and for small series production – cater primarily to the following sectors: automotive, spectacle frames, domestic appliances, hearing aids, children's toys, medical technology, sanitary fittings, writing implements, sport, watchmaking and jewellery.

Headquartered in Sissach, just outside Basel in Switzerland, Berlac AG is one of the eight brands that comprise the Berlac Group, a globally-active group of medium-sized companies committed to the development and manufacture of top-flight solutions for finishing and protecting surfaces and for colouring plastics.



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