

# UV-CURING SCREEN PRINTING INKS FOR TECHNICAL APPLICATIONS

Originally the first UV-curing screen printing inks were developed for the electronics industry. Automated production of circuit boards required UV-curing products like solder masks and etch resists.

If you try to clearly define the significance of the screen process for industrial application or even try to list all possible applications, you will surely fail to do so. In the following you will find a few examples.

Package printing – such as bottles – or printing of labels are not only technical applications. The same applies to printing of CDs, DVDs and credit cards. Aforementioned applications also comprise graphic elements.

Application of pastes to achieve certain functions in the production of circuit boards, solar cells, motor seals, printing of conductive pastes as well as production of electro luminescent effects are all highly technical processes.

The screen process can be described as a technology used to exactly apply any substance to corresponding substrates in a reproducible manner.

## MONOCURE

### MULTIPURPOSE MPC INKS

Coates Screen Inks GmbH offers improved Monocure MPC inks for printing of bottles made of polypropylene, polyethylene, PET and PVC.

This quite universal ink system for package printing shows excellent adhesion and optimal resistance against various substances.

Flow properties of this system have been improved. Using MPC inks large amounts of prints with finest contours can be printed, either positive or negative. In addition to highly opaque black and white adjustments, MPC inks are also available in the base colours of the C-MIX-2000 system. With C-MIX-2000 base colours all colour samples can be matched in a quick and efficient manner.



## UV 650061

### FOR PRINTING OF COSMETIC TUBES

Quality of the packaging material is very important for the production and distribution of cosmetic articles. For printing of soft tubes the properties of a UV-curing screen ink are essential. This fully automatic high speed printing process mainly requires the following properties:



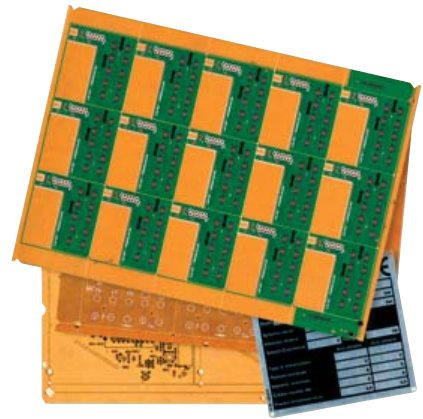
- best possible flow
- optimal opacity
- highest reactivity values
- flexibility
- easily over-printable

The newly developed ink range UV 650061 meets all these requirements.

# UVK

## HIGHLY RESISTANT INK SYSTEM FOR DIFFICULT SUBSTRATES

Originally UVK was developed as notation ink for the circuit board industry. In the graphic and industrial screen industry UVK is successfully used for printing of various duroplastic materials or coated metals.



# SOLARSMART SSM

## FOR THE PRODUCTION OF CREDIT CARDS

Identity and credit cards are part of our every day life. These plastic cards are used for many different occasions - not only for getting cash but also for doctor appointments, shopping and many other things. For high quality cards layout is important. With UV-curing ink system Solarsmart brilliant metallic colours can be used for the card interlayers.

Solarsmart SSM inks are available in the C-MIX 2000 colour shades, which can be used to mix any desired colour shade. Solarsmart SSM prints show excellent suitability for lamination processes.



White and transparent adjustments are available for printing of signature fields.

Solarsmart SSM inks are suitable for plastic materials PVC, polycarbonate, ABS and also PET.

# TCX

## UV-CURING THERMOCHROMIC SCREEN PRINTING INK

There is an increasing demand for printing inks which are sensitive to temperature changes. The development of UV-curing inks for these applications permits printing of thermo-sensitive colour fields, e.g. for production of labels. TCX inks are available in red, blue and black. Colour change to colourless begins at temperatures of approx. 31°C. These systems can also be manufactured for temperature ranges from -5 to +65°C upon special request.

