

# INKS & PRIMERS

## IQDEMY UV INKS

### **IQDEMY UV STANDARD and IQDEMY UV STANDARD PLUS**

UV inks for Konica Minolta, Spectra and other print heads with drop size 12-42 pl

### **IQDEMY UV PREMIUM and IQDEMY UV PREMIUM PLUS**

UV inks for Ricoh, Kyocera and other print heads with drop size 3-42 pl

### **IQDEMY UV LUX**

UV inks for Ricoh GH2220, EPSON DX, Epson 5113 and other print heads without heating

## IQDEMY PRIMERS

### **IQDEMY PRIMERS**

Improve resistance to mechanical abrasion and humidity impact of UV curable inks

### **IQDEMY PVC PRIMER**

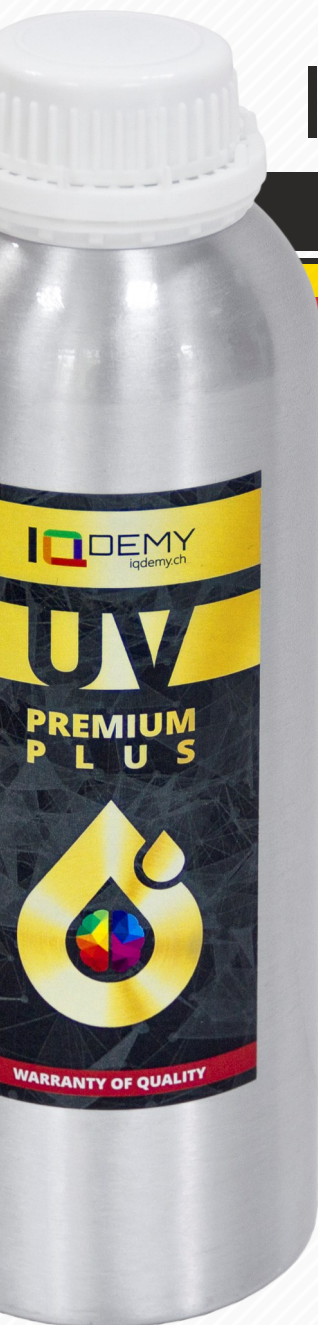
Primer for PVC, Acryl, Polycarbonate

### **IQDEMY GLASS PRIMER**

Primer for silicate glass and glazed ceramic

### **IQDEMY METAL PRIMER**

Primer for steel and stainless steel, aluminum etc.



### **LIGHTFASTNESS more than 10 years**

Our UV inks have lightfastness rate 7 out of 8 on the Blue Wool Scale giving you possibility to use prints outdoors not worrying about fading for years.



### **MOISTURE FASTNESS more than 5 years**

Special monomers in the inks composition ensures long lifetime of print even in high-humidity environment without need for additional protection.



### **NO CYCLOHEXANONE non-toxic**

We have not just excluded toxic elements widely used in UV inks completely but made inks odorless thus taking care of environment and expanding applications.



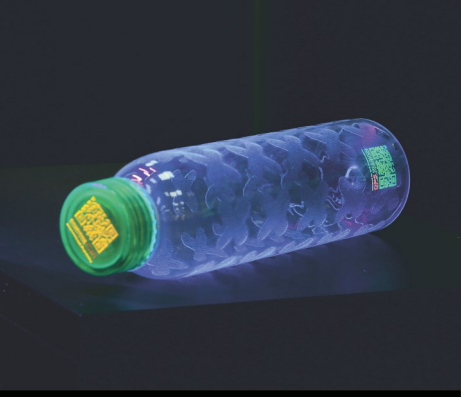
### **FROST RESISTANCE more than 5 years**

Designed to be used in harsh environment inks can sustain temperatures below -60°C and heavy snow without image damage.



### **HEAT RESISTANCE more than 180°C**

The ink withstands temperatures up to +180°C continuously and up to +250°C short-term fitting thermoforming needs.



## QUANTUM DOTS INK

Quantum dots ink are developed for the areas where exact readjustable luminescence is needed. Advantages of quantum dots:

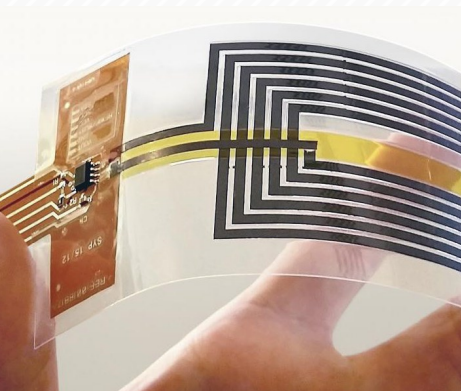
- Photostable
- Lightness resistant
- Fluoresce from UV to UR
- Provide excellent color purity
- Resistant to chemical degradation



Quantum Dot is a new edge for high-security applications – bank and financial documents, as well as brand protections. Unprecedented level of protection in digital and offset printing.

It is extremely difficult to forge code and minimum chances to decode.

We develop QR-code expanded version with several colors. It allows to increase code capacity several times. By mixing shades, we have a unique color code, which, when using only 4 colors, produces 4.3 billion variants.

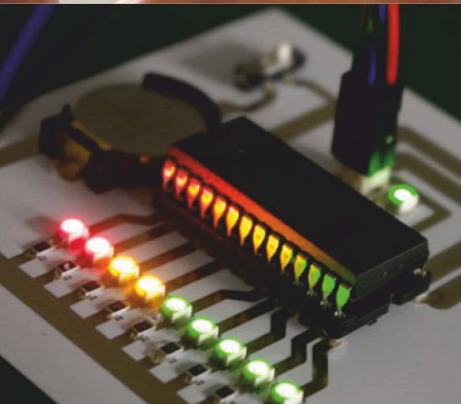


## SILVER BASED CONDUCTIVE INK for inkjet printing

IQDEMY ink are produced basing on silver nanoparticles (up to 100 nm)

Key features of IQDEMY conductive ink:

- Dispersed in an organic solvent
- Silver concentration 60%
- Curing on material up to 250 C°
- Printed images are flexible
- High adhesion to polyimide films



Silver is the most electrically conductive metal which means that electrically conductive elements of the printed elements satisfy all claimed requirements, and prints with ink based on other conductive structures do not correspond.

IQDEMY inks are suitable for macro- and microelectronics printing!

## GLASS & CERAMIC INK

Hybrid inks with UV-LED monomers, solvent elements, ceramic pigments. Technology provides controlled substance of components quantity to customize composition applications.

Main advantages of glass&ceramics ink:

- High resistance to high-temperature behavior
- Chemical durability
- Abrasion resistance
- High image resolution as-fired



## GLOW & FLOURESCENT INK

Spot Fluorescent (NEON) UV inks for digital ink jet Orange, Yellow, Green, Red and other colors.

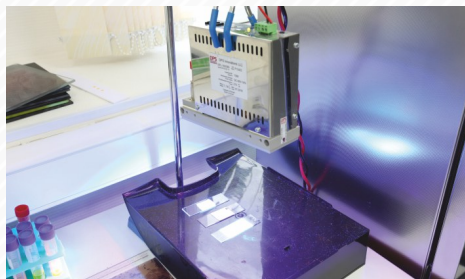
Mixing fluorescent elements with colorants of base CMYK system provides «acid» colors.

Such inks have wide range of applications –indoor as well as outdoor.



## R&D projects and OEM production

**IQDEMY Chemical Division** offers development and production in the digital and analog printing fields. Inks, coatings, primers can be created to suit your needs. Manufacture or recipe handover are later options.







## PROFILE OF THE IQDEMY HOLDING



1998 – Year of entering Printing market

2006 – Start of own ink-jet R&D division

More than 20 patents on unique chemical formulations of inks, software and ink curing system

Several production facilities in Europe and China

Innovation Technology Centre and Headquarters in Switzerland

Experienced team of 10+ years in printing

Latest laboratory and production equipment

Impressive portfolio of successfully accomplished projects

Cooperation with world leading companies and science centers

**IQDEMY Holding web-site:**

**[iqdemy.ch](http://iqdemy.ch)**



**[www.iqdemy-chemicals.pro](http://www.iqdemy-chemicals.pro)**  
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