

HSAJET®

# UV Curable Inks

FOR HP TIJ 2.5

## High-quality UV curable ink cartridges for industrial coding on a wide range of materials

When used in the new HSAJET® MCX printers, HSAJET® cartridges with smart card (SC) enable automatic detection of ink cartridge, auto adjustment of ink parameters and real time monitoring of ink level.



### HSAJET® UC5011si UV LED Curable Ink (SC)

#### Permanent print on PET film and PVC cards

The UC5011si is a UV LED curable ink that cures under a UV LED lamp. Even at low dpi, this ink provides a very dark image. It has low odour compared to other UV curable inks. The curability is great as it cures at a print speed of up to 10m/min.

- It is formulated to give a permanent print on various substrates, like PET film, PP, PVC, special PE, and PVC.

### HSAJET® UCK5020si UV LED Curable Ink (SC)

#### Alcohol and solvent resistant UV curable ink

The UCK5020si is a black UV LED curable ink that cures under a UV LED lamp\*. It is specially developed for applications that require high resistance against alcohol (Isopropanol) and solvents (Xylene, Acetone, Chloroform). It is formulated to give a permanent print on PVC, PP, OPP, PET, PE, aqueous varnish coats, aluminium, blister foil, paper, glass, rubber, as well as other coated, glossy and non-porous substrates. It has low odour compared to other UV curable inks. Cures at high speed up to 30m/min.

### HSAJET® UCW5030si UV LED Curable Ink (SC)

#### UV-curable ink with resistance to alcohol and solvents

The UCW5030si is a white UV LED curable ink that cures under a UV LED lamp\*. Just like UCK5020si, UCW5030 is specially developed for applications that require a high resistance against alcohol (Isopropanol) and solvents (Xylene, Acetone, Chloroform). It is designed to deliver permanent prints on PVC, PP, OPP, PET, PE, aqueous varnish coatings, aluminum, blister foil, paper, glass, rubber, and various other coated, glossy, and non-porous substrates. This ink features a low odour compared to other UV-curable inks and cures at high speeds of up to 30m/min.

\*Recommended UV-LED lamp specifications for UC5011si, UCK5020si, and UCW5030si:

- Wave Length: 385 nm
- Irradiation: 8W~/cm<sup>2</sup>



The HSAJET® UCW5030si White UV LED Curable Ink

HSAJET®

# UV Curable Inks

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## Storage Conditions

Less than 24 hours:  
Leave cartridge in printer.  
Wipe and purge before use.

More than 24 hours:  
Remove cartridge from printer and  
place a cartridge clip over the head.  
Wipe and purge before use.

## Storage Temperature

UV Curable inks: 15-35°C

## Operating Temperature

UV Curable inks: 15-35°C

## Shipping Info

Solvent based inks are flammable and  
must ship according to UN1210/3.

## Cartridge Maintenance and Handling

Clean the cartridge with a lint free cloth  
and wipe slowly and lightly across the  
diagonal edges with the printhead facing  
down.

Follow specific instructions for handling  
UC5011si, UCK5020si, UCW5030si.

## Cleaning of Solvent Inks

Use HSAJET® Cleaning Tissues containing  
Isopropyl Alcohol.

## HP45si Cartridge

The solvent based inks are delivered in the  
HP45si print cartridge, which is a cartridge  
specially optimised for solvent inks to print  
on non-porous material.

The HP45si runs at faster speeds and prints  
at longer throw distance than the standard  
HP45A cartridge.



HP45si cartridge

Ink name	Ink type	Substrates	Fill volume	Avg. delivered ink <sup>1</sup>	Colourant Type	Shelf life	Voltage	Pulse width	Dry time <sup>2</sup>	Decap time
UC5011si	Solvent	Semi- and non-porous	45 ml	33 ml	Pigment	5 mths	10.0 V	1.7 µsec	Curable by UV LED lamp	< 1 hour
UCK5020si	Solvent	Coated, glossy, and non-porous substrates	45 ml	33 ml	Pigment	5 mths	10.0 V	1.7 µsec	Curable by UV LED lamp	30 min
UCW5030si	Solvent	Coated, glossy, and non-porous substrates	50 ml	35 ml	Pigment	5 mths	10.0 V	1.7 µsec	Curable by UV LED lamp	30 min

<sup>1</sup> Average delivered ink volume is application dependent and varies from actual fill volume

<sup>2</sup> Curing ink conditions depend on lamp power, wave length, conveyor speed, accumulated amount of light, etc.

\*\* Recommended pulse warming: Off

DISTRIBUTOR:



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