

Crystal[®] URK

UV-CURING JET INKS APPROVED BY KONICA MINOLTA

INK PROFILE:

The Crystal[®] URK series of jet inks are acrylate based UV-curing products intended for jetting through Konica Minolta piezo DOD printheads at elevated temperature. This ink family offers optimised performance on a wide range of Rigid, semi flexible, flexible display media. They are especially suitable for:

- Acrylic
- Polycarbonate
- Plexiglass
- Di-Bond
- ABS Display Media
- Vinyl
- Calendered Vinyl

Adhesion to olefinic plastics such as polyethylene and polypropylene can be achieved after adequate surface treatment.

The products are intended for jetting through piezo DOD printheads at elevated temperatures.

These formulations have been designed to balance superior:

- Adhesion
- Flexibility
- Surface Resistance
- Weatherability

The ink set is well suited for outdoor use with our highest level of outdoor durability. With a suitable substrate and correct application inks should withstand 2 year + exposure. All pigments are lightfast with a Blue Wool Scale rating of 7+

TYPICAL PHYSICAL PROPERTIES:

PROPERTY	RANGE
Viscosity cps @45C	7.5-9.5
Surface Tension (dynes/cm)	26-30
Cure Dose (mJ/cm ²) ('H' bulb - un-doped)	250

CURING INFORMATION:

Actual cure dose required will depend upon ink thickness, substrate and the UV-curing lamps being used. The stated value of 250mJ/cm² is a typical dose required with an un-doped medium pressure mercury lamp, when curing an 8-15 micron thick layer. In general cure doses may be reduced somewhat as higher intensity (greater irradiance) sources are used.

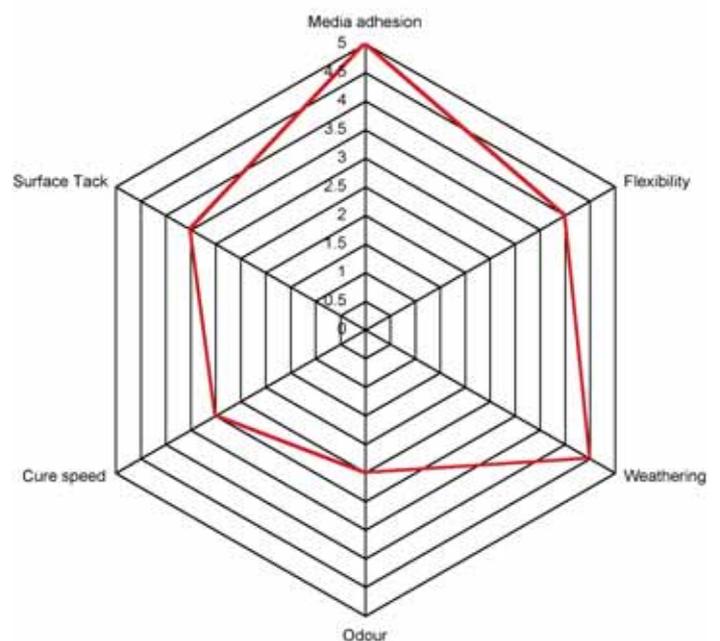
SHELF LIFE:

9 months

MATERIAL & TEMPERATURE COMPATIBILITY:

Compatible materials which can be kept in long term contact with the inks include: Stainless steel, PTFE, EPDM, PP, PE (LD&HD). Incompatible materials include: Butyl rubber, Viton, nitrile, PU-rubbers, Neoprene, PVC, Brass. Ideally the inks should be stored between 5 and 40°C. Inks can be used in jetting equipment up to 55°C. Prolonged exposure to temperatures above 55°C should be avoided.

INK POSITIONING CHART:



This information has been carefully compiled from experience gained in the laboratory and under commercial conditions. However, the product's performance and its suitability for the customer's purpose depend on the particular conditions of use. We recommend that customers satisfy themselves that each product meets their requirements in all respects. Subject to change without notice. All sales are subject to our standard terms and conditions of sale. 1st June 2009.

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