

TIGITAL® UV-LED Outdoor Ink

Series 134/1.0 | 134/1.1

Properties

Viscosity	25 °C 50 °C	24 – 28 mPas 8 – 10 mPas
Surface tension	25 °C	22 – 26 dyn/cm
UV dose for curing with UV-LED lamp (395 nm)	multi-pass single-pass	750 mJ/cm ² 900 – 1,000 mJ/cm ²

Shelf life

9 months for storage between 15 and 35 °C

Colors

- Series 134/11200 yellow
- Series 134/11300 magenta
- Series 134/11400 cyan
- Series 134/11800 black
- Series 134/11130 black CR
- Series 134/11001 varnish
- Series 134/11201 yellow
- Series 134/11301 magenta
- Series 134/11401 cyan
- Series 134/11801 black
- Series 134/11901 inorganic yellow
- Series 134/11111 inorganic cyan
- Series 134/11121 inorganic pink
- Series 134/11151 inorganic green
- Series 134/11131 inorganic red

Package sizes

- 1 l PE bottles (black)
- 5 l PE cubitainer (black)
- Other package sizes are available on request.

Recommended cleaning and flushing fluid

TIGER Flush 151/00001

Applications

TIGITAL® UV-LED outdoor inks are acrylate-based UV-curing systems that can be used on flexible and rigid substrates. These inks were developed for use in DOD piezo printing heads.

These inks are suitable for outdoor use when applied to a suitable substrate. The light fastness rating for all of the pigments used is 7 - 8 or better on the blue wool scale, making the pigments suitable for use on outdoor surfaces for up to 8 years if Varnish 134/11001 is printed on-top.

Weather fastness can be improved still further through the use of appropriate overcoating.

The 134/1.0 series exhibits a higher degree of cross-linking and is optimized for rigid substrates with a negligible thermal expansion coefficient, such as concrete.

The 134/1.1 series exhibits a lower degree of cross-linking and is optimized for flexible substrates or substrates with a higher thermal expansion coefficient. In keeping with the requirements of Qualideco, these inks were also certified externally by the Institute for Surface Technology.

Printing conditions

The inks can be processed at temperatures up to 50 °C. Use the thickness of the printed layer as a guide for determining the UV dose required; the dose of 750 mJ/cm² specified above corresponds to the typical radiation dose from a 395 nm UV-LED lamp on a layer thickness of 10 – 15 µm.

Compatibility of materials

Compatible materials:

- PP
- PE (HD + LD)
- Stainless steel
- PTFE
- EPDM rubber

Incompatible materials:

- PVC
- Butyl rubber
- Brass
- Viton®
- Nitrile plastics
- Polyurethane rubber
- Neoprene

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EN ISO 9001 / 14001



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