

# DAIICHI-LED-UV FLEXO INK

## 1. Product Introduction

DAIICHI-FLEXO UV ink is a highly reactive, fast-curing UV flexographic ink. It can be used for overprinting or in-line printing with UV inks and varnishes. It provides excellent adhesion to a variety of substrates (coated paper, cardboard, PE, PP, cold foil, aluminum foil, and tubing).

Applicable substrates include: coated paper, PE, PP, OPP, and flexible tubing, with a surface tension of 38 dyne/cm or higher after substrate treatment.

## 2. Main Characteristics

Dual curing (UV mercury lamp and LED lamp) provides excellent flow properties and printability. Its moderate viscosity makes it ideal for printing and facilitates easy overprinting.

## 3. Property

COLOR	YELLOW	MAGENTA	CYAN	BLACK	WHITE
DM (25°C)	1200-2200 mPa·s	1500-2500 mPa·s	1600-2600 mPa·s	1800-2800 mPa·s	2000-3000 mPa·s
PARTICLE SIZE	≤6μm	≤8μm	≤8μm	≤10μm	≤12μm
SOLID CONTENT	48%-58%	45%-55%	46%-56%	50%-60%	55%-65%
PROPORTION (25°C)	1.10-1.20 g/cm <sup>3</sup>	1.15-1.25 g/cm <sup>3</sup>	1.20-1.30 g/cm <sup>3</sup>	1.25-1.35 g/cm <sup>3</sup>	1.30-1.40 g/cm <sup>3</sup>
GLOSS (60°)	High gloss (≥85)	High gloss (≥85)	High gloss (≥85)	High gloss (≥80)	Semi-light (40-60)
CURING CONDITIONS	365-405nm LED UV,	365-405nm LED UV,	365-405nm LED UV,	365-405nm LED UV,	365-405nm LED UV,
CURING SPEED	≤0.2S (8000rph)	≤0.3S (8000rph)	≤0.3S (8000rph)	≤0.4S (8000rph)	≤0.5S (8000rph)
ADHESION	4B-5B	4B-5B	4B-5B	5B	4B
LIGHT FASTNESS	5-6	6-7	7-8	8	7
RUB RESISTANT	≥500	≥500	≥600	≥800	≥700
CHEMICAL RESISTANCE	50% Ethanol (24h)	50% Ethanol (24h)	50% Ethanol (24h)	75% Ethanol (24h)	75% Ethanol (24h)
HEAT RESISTANCE	120°C/30min No cracks	120°C/30min No cracks	120°C/30min No cracks	150°C/30min No cracks	150°C/30min No cracks

Ink properties (as show in the table above)  
Were measured as follows:

Test methods: Viscosity (25°C) rotational viscometer;

Fineness ASTM D1316 scraper method;

Solid content ISO 3251 (105°C / 1h);

Specific gravity (25°C) ASTM D1475 pyc nometer method;

Gloss (60° angle) ASTM D523. Test standards: Adhesion ASTM D3359; Light

fastness ISO 105-B02; Abrasion resistance (dry friction) ASTM D5264.

Packaging Specifications: 5kgs/black plastic drum, sealed and labeled with color code.



大興油墨化工(香港)有限公司  
DAIHEI INK (H.K.) CO., LTD.

地址: 香港柴灣新業街6號安力工業中心1503室  
Address: Rm 1503 Honour Ind Ctr. 6 Sun Yip St Chai Wan Hong Kong  
TEL: 852-2896 7689 FAX: 852-2897 1937  
Website: www.daihei.com.hk E-mail: daiheihk @ daiheink.com

大興油墨(福州)有限公司  
DAIHEI INK (FUZHOU) CO., LTD.

地址: 福建省福州市閩侯經濟技術開發區洋嶼路2號  
Add: No.2 Yangyu Road, Eco&Techind Area, Minhou,  
Fuzhou city, Fujian of China (Zipcode:350101)  
TEL: (86)-591-38260128 FAX: (86)-591-38260086  
Website: www.daiheink.com E-mail: daiheinc @ daiheink.com

大興印刷器材(深圳)有限公司  
DAIHEI PRINTING EQUIPMENT (SHENZHEN) CO., LTD

地址: 深圳市龍華區觀瀾平安路58號共聯都市智谷2棟6樓  
Add: 6/F, Black 2 Gonglian Cosmo Technopark, 58 Ping'an Road,  
Guanlan Area Longhua Shenzhen City China  
TEL: +86-755-25884568 FAX: +86-755-25884040  
Website: www.daiheink.cn E-mail: shenzhen @ daiheink.com