

CURABLE INKS Versatile Inks, Versatile Applications

Kao manufactures various curable inks to meet the growing demands of companies that need to print on a range of increasingly difficult substrates. We carry standard UV-curable, LED-curable and EB-Curable inks, and we can customise formulations for specific applications.

INK ADVANTAGES

- Vibrant colours
- Optimum wetting and nozzle performance
- Food-grade options* available
- Rapid curing
- Low or no odours
- High Durability
- Chemical and solvent resistance
- High gloss
- Eco-friendly options available

Supported Applications
Food and pharmaceutical packaging*
Automotive knobs and accessories
Five-colour (CMYKW) labels
Billboards and other wide-format signage
Direct-to-product labelling
Thermoforming
Textiles
Wallpaper and other home decor
Beverage packaging - metal, glass, plastic

LED-CURABLE INKS

For product printing applications, our LED-curable inks produce high-quality results without the risk of substrates being compromised by heat-producing mercury lamps. Our LED inks incorporate the highest quality photoinitiators and monomers to deliver superior durability.

- Wide colour gamut (CMYK+)
- High performance for heat-sensitive films
- Etch-resistant and plating-resistant options
- Spot colours

Electron Beam Curable Inks (EB)

EB-curable inks cure instantaneously using high-energy electrons without the need for photoinitiators, making them a viable option for printing food and pharmaceutical packaging. The substrates maintain integrity because the electron-beam curing process produces no heat. Our CMYK inks for Piezo printing systems release no odours and are non-hazardous.

- No photoinitiators
- Food-grade*
- Complete curing
- High durability
- Low migration and odours

In addition to our standard inkjet inks, Kao creates custom formulations to meet specific printing requirements. We also offer private-label and contract manufacturing services.



www.kaoprint.com

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FLEXAR UV-Curable Inks

One of the newest inks from Kao, FLEXAR produces vibrant results on deep-draw and vacuum thermoforming systems. The ink cures using either mercury or LED lamps. The colours maintain their opacity throughout the thermoforming process.

- Colourfast
- Wide colour gamut (CMYK+)
- Excellent printing detail
- Non-hazardous
- Less product waste
- Cost-effective
- Eco-friendly
- Long-shelflife

ULTRA UV-Curable Inks

Our signature ULTRA UV ink offers instant curing, high print quality, adhesion, scratch resistance, light fastness, colour density, no volatile organic compounds (VOCs). We manufacture cationic and free-radical formulations

- Print on difficult substrates
- Formulations for high-speed card printing
- Options for clear-coating
- High durability
- CMYK+White
- Inks with fluorescent properties

Low-migration UV/LED-Curable Inks

Kao formulates UV/LED curable inks for food packaging where ink migration* or odours may be of greater concern for food and pharmaceutical packaging. These inks incorporate photoinitiators that offer efficient and complete curing while producing high-quality and durable results on a wide range of substrates.

- Print thin films and foils
- Flexible food packaging
- Lab and medical equipment

*These inks are produced by Kao and have undergone extensive lab and production testing. Third-party regulatory compliance testing may also be necessary for evaluating ink migration.

Kao

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TALK TO AN EXPERT

Our chemists and engineers, with experience across industries, partner with you to create optimum solutions.

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