

 **RUCOINX[®]**

A **SAKATA INX** COMPANY

Printing inks for plastic containers



1857
166 YEARS
2023

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Low-migration ink systems

In addition to meeting aesthetic and commercial requirements, packaging for food, cosmetics and pharmaceuticals also has the special task to protect the products against external influences. Minimising the transition of components from the packaging material to the products is crucially important in this regard. As a specialist supplier, **RUCOINX** recognised this importance early on and therefore developed low-migration (LM) printing inks to cater for the needs of the packaging industry. The formulation of these low-migration inks is such that, provided they are used correctly, they comply with the migration threshold values for the substances in question.

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Standard ink systems

Components comprising the **RUCOINX** standard ink system for the decoration of plastic containers include both UV screen printing inks and UV flexo printing inks. All of these UV-curing ink series feature high reactivity so that good adhesion and curing is guaranteed even at high machine speeds. Moreover, they offer excellent resistance to solvents and water. The standard ink system is characterized by high process stability on a wide variety of substrates.

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LED screen printing inks for plastic tubes
low-migration, silicone-free

955LED-LM



Your benefits

- Low-migration comply with the current "Nestlé Guidance Note on Packaging Inks"
- In accordance with positive list of the EuPIA Suitability List of Photoinitiators as well as the specifications of the Swiss EDI Ordinance on Consumer Goods (SR 817.023.21) for inks applied to the non-food contact surface of food packaging
- Free from ITX, benzophenone, 4-methylbenzophenone (4-MBP) as well as formulated free from Bisphenol A
- Free from toxic elements
- Free from mineral oil *
- Completely silicone-free, barium-free and low-odour
- Suitable for curing both with pure LED technology and conventional UV systems (Hg-, Fe-doped)
- Very reactive even at high machine speeds
- High opacity and colour brilliance by optimal pigment wetting and ideal basic colour shades composition
- Very good flow characteristics
- More Flexible ink film with excellent adhesion
- Very good overprintability and over-varnishing with all common tube varnishes
- Good solvent and water resistance
- Excellent filling material resistance after 48 hours
- Crush and walk resistance
- Ideally suitable for combination printing with silicone-free pre-print white as well as silicone-free UV flexo printing inks

* according to EuPIA definition

Substrates

- Pre-treated PE tubes

Product range

- 11 basic colour shades and transparent white
- Process colours for 4-colour set



UV screen printing inks for plastic bottles
low-migration

945UV/MA



■ Your benefits

- Low-migration, barium-free
- Free from ITX, benzophenone, 4-methylbenzophenone (4-MBP) as well as formulated free from Bisphenol A
- Developed especially for the highly delicate field of baby bottle decoration and printing onto the outer surface of food packaging made of PET
- High gloss and excellent printability
- Very good reactivity and adhesion
- Use on all standard high-speed screen printing machines
- Dishwasher and sterilization-resistant as well as water and steam-resistant
- Excellent resistance to fill products
- No bleeding of ink through the mesh
- High yield and reduced ink waste

■ Substrates

- ABS, PC, PS, PVC and pre-treated PE, HDPE, PP, PA, PET, PETG

■ Product range

- 10 basic colour shades and transparent white
- Process colours for 4-colour set
- Highly opaque white and black
- Low-migration overprinting varnishes for UV screen printing



UV dry offset printing inks for plastic cups
low-migration

085UV-LM



Your benefits

- Low-migration comply with the current "Nestlé Guidance Note on Packaging Inks"
- In accordance with positive list of the EuPIA Suitability List of Photoinitiators as well as the specifications of the Swiss EDI Ordinance on Consumer Goods (SR 817.023.21) for inks applied to the non-food contact surface of food packaging
- Free from ITX, benzophenone, 4-methylbenzophenone (4-MBP) as well as formulated free from Bisphenol A
- Excellent abrasion and rub resistance – no ink set-off on the inside of the cup
- Excellent ink transfer at inking unit, low mist even at high machine speeds
- Precise reproduction of fine details as well as reverse type
- Very fast curing properties at printing speeds of up to 700 pieces/minute with high process security
- High colour strength and yield as well as excellent ink transfer
- Ready-to-use inks
- Low-odour according to DIN 1230-1 (Robinson test)
- High light fastness according to Blue Wool Scale (DIN 16525)

Substrates

- PE, PP and PS

Product range

- 13 basic colour shades and transparent white
- Process colours for 4-colour set
- Highly opaque white and black
- Pre-print white highly opaque



UV screen printing inks for plastic bottles

920UV



Your benefits

- Free from ITX, benzophenone, 4-methylbenzophenone (4-MBP) as well as formulated free from Bisphenol A
- Universal UV screen printing ink in a thixotropic formulation
- High-gloss and very reactive
- Excellent curing and adhesion even at high machine speeds
- Good solvent and water resistance after 12 hours
- Higher viscosity adjustment suited for use under extreme climatic conditions (temperature range >28°C)

Substrates

- Pre-treated PE, PP, PVC

Product range

- 12 basic colour shades and transparent white
- Process colours for 4-colour set
- Lightfast formulation
- Highly opaque white and black
- Overprinting and tactile varnishes for UV screen printing

This ink series is not suitable for printing onto food packaging



UV screen printing inks for plastic tubes standard ink system

950UV



Your benefits

- Free from ITX, benzophenone, 4-methylbenzophenone (4-MBP) as well as formulated free from Bisphenol A
- Formulation with special pigments
- High opacity, high colour intensity and good resistances
- High opacity even on dark coloured tubes
- Very high reactivity, good flow, high gloss and adhesion on high-speed screen printing machines
- Flexible ink films with optimal adhesion on pre-treated PE tubes
- Very good overprintability and over-varnishing with all common tube varnishes
- Very good solvent and water resistance after 12 hours
- Ideally suitable for combination printing with silicone-free pre-print white and silicone-free UV flexo printing inks

Substrates

- Pre-treated PE tubes

Product range

- 11 basic colour shades and transparent white
- Highly opaque white and black
- Overprinting and tactile varnishes for UV screen printing

This ink series is not suitable for printing onto food packaging



UV flexo printing inks for plastic tubes silicone-free

UVFX



Your benefits

- Free from ITX, benzophenone, 4-methylbenzophenone (4-MBP) as well as formulated free from Bisphenol A
- Silicone-free and low-odour
- Excellent in line, half-tone and full-tone printing
- Very good printability at high speeds thanks to stable and low viscosity
- High opacity and colour brilliance by optimal pigment wetting and ideal basic colour shades composition
- Very good chemical resistance
- Optimal results in combination with other UV-printing methods, also in embossing and die-cutting
- For use on all standard UV flexo printing machines

Substrates

- Pre-treated PE tubes and PP tubes

Product range

- 13 basic colour shades and transparent white
- Process colours for 4-colour set
- Highly opaque white and black

This ink series is not suitable for printing onto food packaging



UV screen printing inks for plastic bottles

985UV



■ Your benefits

- Free from ITX, benzophenone, 4-methylbenzophenone (4-MBP) as well as formulated free from Bisphenol A
- Both for flat screen printing and rotary screen printing (low-viscosity formulation – 985UV/NV)
- Excellent flow characteristics
- Very reactive inks with high opacity
- Very good curing and adhesion even at high machine speeds
- Very good solvent and water resistance after 12 hours

■ Substrates

- Pre-treated PE / PP, PVC

■ Product range

- 11 basic colour shades and transparent white
- Process colours for 4-colour set
- Lightfast formulation
- Highly opaque white and black
- Metallics
- Overprinting and tactile varnishes for UV screen printing

This ink series is not suitable for printing onto food packaging



UV screen printing inks for plastic cartridges

990UV



■ Your benefits

- Free from ITX, benzophenone, 4-methylbenzophenone (4-MBP) as well as formulated free from Bisphenol A
- Very good flow properties
- Excellent opacity
- Highly reactive
- Very good curing and adhesion even at high machine speeds
- Very good solvent and water resistance after 12 hours

■ Substrates

- Pre-treated PE / PP, PA

■ Product range

- 11 basic colour shades and transparent white
- Process colours for 4-colour set
- Highly opaque white and black



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