

SICURA FLEX DUAL CURE



The **SICURA Flex Dual Cure** flexo printing ink series is a dual-cure system curing by radical mechanism with UV-LED light at a wave-length of 395 nm as well as UV-curing mercury arc-lamps. It is suitable for processing on all types of in-line label or packaging printing machines on a wide range of plastic materials and other substrates.

SICURA Flex Dual Cure is a non-low-migration inks series formulated in Compliance to the EuPIA Exclusion Policy for Printing Inks and Related Materials. The series is only acceptable for food packaging, if the processing conditions rule out the possibility of set-off in the reel or stack and the design of the final printed article ensures reliable functional barrier properties to migration.

The offered product portfolio is augmented by additional products such as opaque whites, metallic inks, varnishes for various applications, adhesives, as well as primers to improve adhesion on demanding printing substrates.

CURING

Dual cure system:
LED-UV curing (395 nm)
and **mercury arc lamp**

PRINTING SPEED

up to 150 m/min

PRODUCT SAFETY

- non-low-migration
- developed for non NPH (Nutri, Pharma + Hygiene) applications

COMPLIANCES

- EuPIA Exclusion Policy for Printing Inks and Related Materials
- **TMPTA free formulation**

SICURA FLEX DUAL CURE SERIES PERFORMANCE AT A GLANCE

Very good printability

- Good ink flow
- Results in high image definition: low dot gain, sharp dots, clean micro texts

High color strength

- Offers high opacity and brilliance of inks

Highly reactive

- Allows printing speeds of up to 150 m/min

High chemical & mechanical resistance

- Alkali & solvents
- Heat sealing
- Good adhesion

Recommended anilox rollers

Highly concentrated process prints	360 – 475 lines/cm	–	2.5 – 3.5 cm ³ /m ²
Line images and/or texts	180 – 195 lines/cm	–	6.0 – 7.0 cm ³ /m ²
Intensive solids	160 – 180 lines/cm	–	7.0 – 8.0 cm ³ /m ²
Fine lines	200 – 320 lines/cm	–	4.5 – 6.0 cm ³ /m ²

Because of the differences in materials for printing, processing conditions and test criteria this technical information can only be of an advisory nature. Our data reflect the latest state of our knowledge and are based on the characteristics established in the laboratory and on practical experience. Your own tests with the original materials under the respective conditions are indispensable. We disclaim any liability for applications for which this ink series is not foreseen.

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APPLICATIONS	Color Scale (Red to Green)					REMARKS	
Self-adhesive label						●	
Shrink-Sleeve						●	
Multilayer label						●	
Sandwich label						●	
Wrap around label						●	
Pouches	●						Set-off migration
Tube laminate	●						Set-off migration
Aluminum lids	●						Set-off migration
IML				●			
SUBSTRATES							
Corona pre-treated Polyethylene						●	
Primered Polyethylene						●	Depending on pre-treatment / quality of the primer
Corona pre-treated Polypropylene				●			Conditionally suitable application
Primered Polypropylene				●		●	Depending on pre-treatment / quality of the primer
Pre-treated/ primered Polyester				●		●	Depending on pre-treatment / quality of the primer
Polystyrene				●			Depending on pre-treatment / quality of the primer
Soft PVC (Vinyl)						●	
Paper						●	
Topcoat thermopaper						●	Conditionally suitable application
ECO thermopaper	●						Conditionally suitable application
Primered aluminum foils						●	Depending on pre-treatment / quality of the primer
Primered metalized substrate						●	Depending on pre-treatment / quality of the primer
POST-PROCESSING							
TTR printing				●			Conditionally suitable application
Hot-foil stamping						●	Conditionally suitable application

SICURA FLEX DUAL CURE PRODUCT-PORTFOLIO INCLUDES:

Ink series (incl. CMYK, PMS bases & fast shades)	✓	Metallics	✓
Opaque Whites & Sleeve Whites	✓	Adhesives	✓
OPV, Varnishes & Primers	✓	Specialties	✓

Products available in EMEA

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