

STERAFLEX LED (L.M.)

Group: 17.2.1

Revision Date: 03/05/2024

CHARACTERISTICS

The Steraflex L.M. Inks are specially developed for printing on flexo machines with amazing densities and excellent flow properties. These inks are characterized by their low odour and low migration properties.

PROPERTIES

- Low odour and low migration properties
- Excellent printability
- High gloss with high colour strength
- Fast curing speed
- In compliance with the EuPIA policy and Swiss Ordinance

SUITABLE SUBSTRATES

- All kinds of paper and board
- Inline corona treated PE
- Certain types of plastic films
- Selected lacquered/primed aluminium foils and lids

Preliminary adhesion tests are recommended. Other substrates to be tested before use.

COLOR	ARTICLE CODE	IWS	SPIRIT	NITRO	ALKALI	HEAT RES '10
Process Colours 						
Yellow	EXC54001XM	5	+	+	+	180 °C
Magenta	EXC54002XM	5	+	+	-	170 °C
Cyan	EXC54003XM	8	+	+	+	220 °C
Black	EXC54004XM	8	+	+	+	220 °C

[Mixing Colours](#)

Opaque white	EXC54901XM					
Transparent white	EXC54902XM					
Opaque white sleeves	EXC54903XM					
Yellow	EXC54912XM	5	+	+	+	180 °C
Yellow fast	EXC54913XM	6	+	+	+	220 °C
Orange	EXC54920XM	5	+	+	+	200 °C
Warm red fast	EXC54931XM	7	+	+	+	220 °C
Red032 *	EXC54932XM	5	+	+	-	170 °C
Rubine red	EXC54940XM	5	+	+	-	170 °C
Rubine red fast 7	EXC54942XM	7	+	+	+	220 °C
Rhodamine red fast	EXC54951XM	7	+	+	+	220 °C
Purple fast	EXC54953XM	7	+	+	+	200 °C
Violet fast	EXC54961XM	7	+	+	+	200 °C
Reflex blue fast *	EXC54963XM	7	+	+	+	200 °C
Blue 072 fast *	EXC54965XM	7	+	+	+	200 °C
Cyan	EXC54970XM	8	+	+	+	220 °C
Green	EXC54980XM	8	+	+	+	220 °C
Black	EXC54990XM	8	+	+	+	220 °C

**these inks should not be used for mixings, as they are already built up out of other base inks*

ADDITIVES

Silicone Additive	0.5–1%	EXC10005	<i>Modified inks cannot be coated or overprinted</i>
Curing Promotor	1–3%	EXC10108	<i>Exceeding the recommended addition level may increase the risk of premature polymerization and colour change.</i>
Anti-foam Additive	0.5–1%	EXC10058	<i>Modified inks cannot be coated or overprinted</i>
Reducer Viscosity	up to 5%	EXC10102	
Reducer Colour Strength	no limit	EXC54902MY	

REMARKS

Cleaning: it is not necessary to wash the press immediately after printing. The LED STERAFLEX series will not cure in the press and is therefore ready to use for the next day's printing. However, the ink may start to cure in the press if sunlight or UV/LED-light from the bulbs / lamp is allowed to shine on the ink. **Rollers:** the following roller material is recommended: EPDM (Ethylene-Propylene-Diene-Monomers). EPDM rollers show excellent performance with UV-inks.

Storage conditions: To ensure maximum stability, the product should be stored in closed containers at temperatures between 15 –20°C, away from direct heat and exposure to UV light. Storage in a dark room will be preferable. Especially EXC54902XM has very sensitive reactivity, so have to be avoided by any lights. Stocks should be rotated (i.e. use oldest stock first). Following the above-mentioned storage conditions the quality of these products is guaranteed when used within the BBD (Best Before Date) that is mentioned on the label of the involved lot. Products which are stored as per the above-mentioned storage conditions can be usable for a longer time (in excess of the "best before date").

Any usage after the "best before date" is subject to your own testing. Using the product after the "Expiry Date" is not recommended. Please note that due to our internal processes the time span between the "date of manufacturing" and the "Best Before Date" may deviate but will never be lower than our minimum guaranteed shelf life which has not changed. When laminated afterwards, take care to use the correct fast inks, and to do a preliminary adhesion test. Substrates may differ in their chemical structure or method of manufacture. A test for suitability must always be carried out before printing. Antistatic, Mould Release Agents and Slip Additives may have negative effects on adhesion and should be detected and removed prior to printing.

PRODUCT SAFETY

These inks are only suitable for use on **the non-food contact side of food packaging**, provided they are applied using the relevant Good Manufacturing Practices (GMP) and according to the guidelines in this Technical Data Sheet. The printer, converter and packer/filler each have a responsibility to ensure that the finished – printed – product is fit for the intended purpose(s) and that the ink and coating components do not migrate into the food at levels that exceed legal, regulatory and industry defined requirements. Please refer to Toyo Ink Europe's "Statement of Composition" for further regulatory information. In case of specific applications, please contact your technical application service.

PACKAGING*5 KG plastic pails**7 KG plastic pails***CONTACT INFO**

TOYO INK EUROPE N.V. 🏢 Tunnelweg 3 - 2845 Niel - Belgium ☎ +32 3/880.67.67 ✉ info@toyoink.eu