



STERAFLEX

CHARACTERISTIC

The Steraflex inks are especially developed for printing on flexo machines with excellent flow properties.

PROPERTIES

- ↻ *Excellent printability*
- ↻ *Fast curing*
- ↻ *Good gloss, high colour strength*
- ↻ *Viscosity properties fit for flexo printing*
- ↻ *Low odour*
- ↻ *Optimal resistance properties will be obtained 24 hours after printing*
- ↻ *Formulated without benzophenone*
- ↻ *Formulated without ITX*

APPLICATION AREA

- all flexo label and packaging printing machines equipped with a UV-curing system*

UV CURING SPEED (with 1 lamps of 160 W/cm)

- *200 m/min*

(the curing is also influenced by the substrate, the condition of the lamps, the condition and adjustment of the reflectors, the thickness of the ink layer, colour, etc.)

SUITABLE SUBSTRATES (surface tension see 'Recommended treatment levels')

- ☰ *All kinds of paper and board*
- ☰ *Inline Corona treated polyethylene*
Preliminary adhesion tests are recommended
- ☰ *Selected laquered/primered aluminium foils and lids.*

AVAILABLE COLOUR SHADES

- ☼ *Process colours*
- ☼ *Opaque white*
- ☼ *Mixing colours*
- ☼ *Special colours (eeg. EXC557011, EXC557012)*

REFERENCES STERAFLEX INKS

		IWS	Alcohol	Nitro	Alkali
<u>Process colors</u>					
Yellow	EXC55001	5	+	+	+
Magenta	EXC55002	5	+	+	-
Cyan	EXC55003	8	+	+	+
Black	EXC55004	8	+	+	+
<u>Lightfast process inks</u>					
Yellow	EXC55021	7	+	+	+
Magenta	EXC55022	7	+	+	+
<u>Mixing colors</u>					
Opaque white	EXC55901				
Transparent white	EXC55902				
Yellow	EXC55912	5	+	+	+
Orange	EXC55920	5	+	+	+
Warm red	EXC55930	3	+	+	-
Warm red fast	EXC55931	7	+	+	+
Red 032	EXC55932	5	+	-	+
Rubine red	EXC55940	5	+	+	-
Rubine red fast 7	EXC55942	7	+	+	+
Rhodamine red	EXC55950	3	-	-	-
Rhodamine red fast	EXC55951	7	+	+	+
Purple *	EXC55952	3	-	-	-
Purple fast *	EXC55953	7	+	+	+
Violet	EXC55960	3	-	-	-
Violet fast	EXC55961	7	+	+	+
Reflex blue	EXC55962	4	-	-	-
Reflex blue fast *	EXC55963	7	+	+	+
Blue 072 fast *	EXC55965	7	+	+	+
Cyan	EXC55970	8	+	+	+
Green	EXC55980	8	+	+	+
Black	EXC55990	8	+	+	+

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

REMARKS

- ★ *When laminated afterwards, take care to use the correct fast inks, and to do a preliminary adhesion test.*
- ★ *Cleaning: it is not necessary to wash the press immediately after printing. These inks will not cure in the press and are therefore ready to use for the next day's printing. However, the ink may start to cure in the press if sunlight or UV-light from the bulbs / UV-lamp is allowed to shine on the ink.*
- ★ *Shelf life: these inks have a 12-month shelf life guarantee. This guarantee covers 12 months from the date of manufacture (which is mentioned on the label). In order to give this guarantee, certain recommendations must be followed: these inks should be kept on stock at temperatures between 15 – 20°C and they should not be exposed to direct sunlight or heat. If possible, store the ink in a dark room.*
- ★ *Rollers: the following roller material is recommended: EPDM (Ethylene-Propylene-Diene-Monomers). EPDM rollers show excellent performance with UV-inks.*
- ★ *Certain metallic UV-inks may cause swelling of EPDM rollers*
- ★ *Nitril rubber: nitril rubber rollers show minimal swelling with UV-inks and conventional inks. Solvents such as glycol and acetates do have a tendency to make this rubber swell. Nitril rubber is recommended when using two component metallic inks.*

PACKAGING

- 5 kg plastic pails

ADDITIVES

- | | | | |
|----------------------------------|-------------------------|----------|----------------|
| ◆ Wash-up solution | labelling and reg. free | EXC10820 | |
| | anilox cleaner | EXC10864 | |
| ◆ Photoinitiator | liquid for inks | EXC10045 | (surface cure) |
| | liquid for inks | EXC10708 | (depth cure) |
| ◆ Thinner | | EXC10031 | |
| ◆ Surface tension pen (38 dynes) | | 602038 | |

RECOMMENDED TREATMENT LEVELS (DYNES / CM)

		PE	PP	PVC	PET	PS	PVDC	PU	ABS	PTFE	Silicone
Flexo and	Min.:	38	40	36	42	42	42	38	40	36	40
Gravure	Max.:	50	50	50	54	48	52	50	52	52	50

PRODUCT SAFETY

*This varnish (or these inks) is (are) **NOT** suitable for **FOOD applications** unless a proper risk assessment proves that its use is safe (e.g. if the process rules out the possibility of set-off in the reel or stack AND if the design of the final printed article ensures reliable functional barrier properties to migration). For further information please contact our local sales team or www.toyoinkarets.com.*