



## 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*
- ↻ *In compliance with latest Exclusion Policy of EuPIA*

## 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/primed aluminium foils and lids.*

*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.*

## AVAILABLE COLOUR SHADES

- ☼ Process colours
- ☼ Opaque white
- ☼ Mixing colours
- ☼ Special colours (eeg. EXC557125Y, EXC557139Y, ...)

## REFERENCES STERAFLEX INKS

		IWS	Alcohol	Nitro	Alkali
<b><u>Process colors</u></b>					
Yellow	EXC55001Y	5	+	+	+
Magenta	EXC55002Y	5	+	+	-
Cyan	EXC55003Y	8	+	+	+
Black	EXC55004Y	8	+	+	+
Deep black	EXC55005Y	7	+	+	+
<b><u>Lightfast process colors</u></b>					
Yellow	EXC55021Y	6	+	+	+
Magenta	EXC55022Y	7	+	+	+
<b><u>Mixing colors</u></b>					
Opaque white	EXC55901Y				
Opaque white (sleeves)	EXC57725				
Transparent white	EXC55902Y				
X-treme white	EXC55906Y				
Yellow	EXC55912Y	5	+	+	+
Yellow fast	EXC55913Y	6	+	+	+
Orange	EXC55920Y	5	+	+	+
Warm red	EXC55930Y	3	+	+	-
Warm red fast	EXC55931Y	7	+	+	+
Red 032	EXC55932Y	5	+	-	+
Rubine red	EXC55940Y	5	+	+	-
Rubine red fast 7	EXC55942Y	7	+	+	+
Rhodamine red fast	EXC55951Y	7	+	+	+
Purple fast *	EXC55953Y	7	+	+	+
Violet fast	EXC55961Y	7	+	+	+
Reflex blue	EXC55962Y	4	-	-	-
Reflex blue fast *	EXC55963Y	7	+	+	+
Blue 072 fast *	EXC55965Y	7	+	+	+
Cyan	EXC55970Y	8	+	+	+
Green	EXC55980Y	8	+	+	+
Black	EXC55990Y	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 |                |

## RECOMMENDED TREATMENT LEVELS (DYNES / CM)

		PE	PP	PVC	PET	PS	PVDC	PU	ABS	PTFE	Silicone
<b>Flexo and</b>	<b>Min.:</b>	38	40	36	42	42	42	38	40	36	40
<b>Gravure</b>	<b>Max.:</b>	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.toyoink.eu](http://www.toyoink.eu)*