



Technische Steekkaart
Fiche Technique
Technisches Merkblatt
Technical Data Sheet

TOYO INK

STERACUP *plus*

CHARACTERISTIC

The STERACUP **plus** is formulated to suit pre-formed cup, pail and tube printing. They are characterised by a low residual odour and low migration properties. Suitable for very high speed cup printing.

PROPERTIES

- ☞ Suitable for printing on the outside of packaging or cups
- ☞ These inks conform to the latest European norms for the use in primary packaging
- ☞ Extra low in residual odour
- ☞ Very high reactivity
- ☞ Low migration properties
- ☞ Optimal resistance properties will be obtained 24 hours after printing

APPLICATION AREA

- Dry offset

UV CURING SPEED (Interdeck UV lamp 160W/cm)

- 600 cups/min

(The reactivity 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 (min. surface tension 38 dynes/cm)

- ☞ All kinds of paper and board
- ☞ Certain corona treated PE-boards
- ☞ Certain corona treated plastics

Preliminary adhesion tests are recommended

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 colors

REFERENCES STERACUP **plus**

		IWS	Alcohol	Nitro	Alkali
<u>Process colours – wet offset</u>					
Yellow	EXC30001AP	5	+	+	+
Magenta	EXC30002AP	5	+	+	-
Cyan	EXC30003AP	8	+	+	+
Black	EXC30004AP	8	+	+	+
<u>Mixing system</u>					
Mixing white	EXC30900AP				
Opaque white	EXC30901AP				
Transparent white	EXC30902AP				
Yellow	EXC30912AP	5	+	+	+
Orange	EXC30920AP	5	+	+	+
Warm red fast	EXC30931AP	7	+	+	+
Rubine red	EXC30940AP	5	+	+	-
Rubine red fast 7	EXC30942AP	7	+	+	+
Rhodamine red fast 7	EXC30951AP	7	+	+	+
Violet fast	EXC30961AP	7	+	+	+
Reflex blue fast*	EXC30963AP	7	+	+	+
Blue 072 fast*	EXC30965AP	7	+	+	+
Cyan	EXC30970AP	8	+	+	+
Green	EXC30980AP	8	+	+	+
Black	EXC30990AP	8	+	+	+

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

REMARKS

- ★ **Cleaning:** it is not necessary to wash the press immediately after printing. The STERACUP **plus** 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-light from the bulbs / UV-lamp is allowed to shine on the ink.
- ★ **Shelf life:** the STERACUP **plus** has 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: the STERACUP **plus** 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. They are not suitable for conventional inks, since they will swell considerably in contact with aliphatic hydrocarbons, which are used in traditional offset inks.
- ★ **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.

- ★ *Dry offset or Letterpress plates: the STERACUP **plus** can be used together with the majority of the marketed letterpress plate materials. The best results are achieved by using soft plates for solids and harder plates for line, text and process work.*

PACKAGING

- 1 kg tins

ADDITIVES

- ◆ Wash-up solution

for manual washing	EXC10810
for automatic washing	EXC10800
labelling and reg. free	EXC10820
- ◆ Antitack paste

EXC10001

- ◆ Photoinitiator

depth cure	EXC10045
surface cure	EXC10060
- ◆ Thinner

EXC10705

OTHER INFO

These inks and/or coatings (this ink and/or coating) are (is) 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.