



EXC40011Y-14Y

CHARACTERISTIC

EXC40011Y-14Y is the ink series for paper and board for continuous printing with an exceptional lithographic behaviour, being able to run at high speed.

PROPERTIES

- ☞ *Excellent lithographic properties*
- ☞ *Optimal UV curing speed*
- ☞ *Fully laser resistant after correct UV curing*
- ☞ *The EXC40011Y-14Y contains carefully selected raw materials to minimise the risk of skin irritation and cause as little odour as possible. It does not contain raw material listed on CEPE or TSCA exclusion list*
- ☞ *Optimal resistance properties will be obtained 24 hours after printing*
- ☞ *Free of VOC's*
- ☞ *Soy based ink, qualifying for the Soy Ink Seal*
- ☞ *Formulation based on renewable raw materials*
- ☞ *Formulated without benzophenone*

APPLICATION AREA



- Letterpress*
- Wet offset*

UV CURING SPEED (with 3 lamps of 120W/cm)

- ➔ *450 m/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 coated and uncoated paper*
-  *Certain flexible substrates*

Preliminary adhesion tests are recommended

AVAILABLE COLOUR SHADES

-  *Process colours*

REFERENCES EXCURE 40000Y

		IWS	Alcohol	Nitro	Alkali	Heatres. 10'
<u>Process colours</u>						
Yellow	EXC40011Y	5	+	+	+	180 °C
Magenta	EXC40012Y	5	+	+	-	170 °C
Cyan	EXC40013Y	8	+	+	+	220 °C
Black	EXC40014Y	8	+	+	+	220 °C

REMARKS

- ★ *Shelf life: the EXC40011Y-14Y 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 EXC40011Y-14Y 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*
- ★ *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.*
- ★ *Letterpress plates: the EXC40011Y-14Y 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.*
- ★ *Cleaning: it is not necessary to wash the press immediately after printing. The EXC40011Y-14Y 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.*

PACKAGING

- 1 kg plastic black pail
- 2 kg plastic black tube
- 3 kg plastic black pail

ADDITIVES

- ◆ *Wash-up solution*
 - for manual washing* EXC10810
 - for automatic washing* EXC10800
 - labelling and reg. free* EXC10820
- ◆ *Antitack paste* EXC10001
- ◆ *Photoinitiator*
 - liquid* EXC10708
 - liquid* EXC10704
- ◆ *Thinner* EXC10705

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.*