



Technische Steekkaart
Fiche Technique
Technisches Merkblatt
Technical Data Sheet

TOYO INK

UV NEWSCURE INKS (UNDERSHOT) EXC40011UD-14UD

CHARACTERISTIC

This series is especially developed for running on high speed coldset web presses with undershot ink duct and with an exceptional lithographic behaviour.

PROPERTIES

- ↻ Excellent lithographic properties
- ↻ Optimal UV curing speed
- ↻ The UV Newscure series 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 TSCA exclusion list. All raw materials used are in compliance with the EUPIA Exclusion policy.
- ↻ Optimal resistance properties will be obtained 24 hours after printing
- ↻ Very good flow, combined with high colour strength

APPLICATION AREA

- Wet offset

UV CURING SPEED (with 3 lamps of 200 W/cm)

- 9 m/s or higher when using N₂-atmosphere

(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, newspaper
- 📄 LWC papers

Preliminary adhesion tests are recommended

REFERENCES

		IWS	Alcohol	Nitro	Alkali
<u>Process colours</u>					
Yellow	EXC40011UD	5	+	+	+
Magenta	EXC40012UD	5	+	+	-
Cyan	EXC40013UD	8	+	+	+
Black	EXC40014UD	8	+	+	+
Deep black	EXC40015UD	8	-	-	+
<u>Mixing system</u>					
Mixing white	* EXC40900UD				
Transparent white	* EXC40902UD				
Lemon yellow	EXC40910UD	5	+	-	+
Lemon yellow fast	* EXC40911UD	6	+	+	+
Yellow	* EXC40912UD	5	+	+	+
Yellow fast 6	* EXC40913UD	6	+	+	+
Yellow IWS 7	EXC40914UD	7	+	-	+
Warm yellow	* EXC40916UD	5	+	+	+
Orange	* EXC40920UD	5	+	+	+
Orange fast	* EXC40921UD	7	+	+	+
Warm red	* EXC40930UD	3	+	+	-
Warm red fast	* EXC40931UD	7	+	+	+
Red 032	EXC40932UD	5	+	-	+
Red 032 IWS 7	EXC40933UD	7	-	-	+
Rubine red	* EXC40940UD	5	+	+	-
Rubine red fast 6	* EXC40941UD	6	+	+	+
Rubine red fast 7	* EXC40942UD	7	+	+	+
Rhodamine red	EXC40950UD	3	-	-	-
Rhodamine red fast 7	* EXC40951UD	7	+	+	+
Purple**	EXC40952UD	3	-	-	-
Purple fast**	* EXC40953UD	7	+	+	+
Violet	EXC40960UD	3	-	-	-
Violet fast	* EXC40961UD	7	+	+	+
Reflex blue	EXC40962UD	4	-	-	+
Reflex blue fast**	* EXC40963UD	7	+	+	+
Blue 072	EXC40964UD	3	-	-	-
Blue 072 fast**	* EXC40965UD	7	+	+	+
Cyan	* EXC40970UD	8	+	+	+
Green	* EXC40980UD	8	+	+	+
Black	* EXC40990UD	8	+	+	+

* Guaranteed laser print resistant after correct UV curing.

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

REMARKS

- ★ *Shelf life: the UV Newscure series 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 Excure 40000 series 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.*
- ★ *Nitril rubber rollers show minimal swelling with conventional inks. EPDM roller quality shows little to no swelling with UV inks. Solvents such as glycol and acetates do have a tendency to make this rubber swell. EXC10820 is a VOC free cleaning solution which can be used undiluted or diluted with water. A preliminary test should be done or the usage should be approved by the roller- and blanketsupplier.*
- ★ *Offset plates should be baked or resistant against UV inks.*
- ★ *Cleaning: it is not necessary to wash the press immediately after printing. The UV Newscure 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-light from the bulbs / UV-lamp is allowed to shine on the ink.*

AVAILABLE COLOUR SHADES

- ☼ *Process colours*
- ☼ *Mixing colours*

PACKAGING

- *10 kg pails*
- *25 kg pails*
- *220 kg barrels*

ADDITIVES

- | | | |
|----------------------------|--------------------------------|-----------------|
| ◆ <i>Fountain additive</i> | <i>pH 4.8</i> | <i>EXC10950</i> |
| ◆ <i>Wash-up solution</i> | <i>labelling and reg. free</i> | <i>EXC10820</i> |
| ◆ <i>Antitack paste</i> | | <i>EXC10001</i> |
| ◆ <i>Photoinitiator</i> | <i>paste</i> | <i>EXC10708</i> |
| | <i>liquid</i> | <i>EXC10704</i> |
| ◆ <i>Thinner</i> | | <i>EXC10705</i> |

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.*