



# EXCURE 40000S TOYO

## CHARACTERISTIC

*Excure 40000S 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 Excure 40000S 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 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*

*\* Only for certain well specified colours (see next pages)*

## 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*

## REFERENCES EXCURE 40000S

		IWS	Alcohol	Nitro	Alkali
<b><u>Process colours</u></b>					
Yellow	EXC40031	5	+	+	+
Magenta	EXC40032	5	+	+	-
Cyan	EXC40033	8	+	+	+
Black	EXC40034	8	+	+	+
<b><u>Mixing system</u></b>					
Mixing white	EXC40900S				
Opaque white	EXC40901S				
Transparent white	EXC40902S				
Lemon yellow	EXC40910S	5	+	-	+
Lemon yellow fast	* EXC40911S	6	+	+	+
Yellow	* EXC40912S	5	+	+	+
Yellow fast 6	* EXC40913S	6	+	+	+
Yellow IWS 7	EXC40914S	7	+	-	+
Warm yellow	* EXC40916S	5	+	+	+
Orange	* EXC40920S	5	+	+	+
Orange fast	* EXC40921S	7	+	+	+
Warm red	* EXC40930S	3	+	+	-
Warm red fast	* EXC40931S	7	+	+	+
Red 032	EXC40932S	5	+	-	+
Red 032 IWS 7	EXC40933S	7	-	-	+
Rubine red	* EXC40940S	5	+	+	-
Rubine red fast 6	* EXC40941S	6	+	+	+
Rubine red fast 7	* EXC40942S	7	+	+	+
Rhodamine red	EXC40950S	3	-	-	-
Rhodamine red fast 7	* EXC40951S	7	+	+	+
Purple**	EXC40952S	3	-	-	-
Purple fast**	* EXC40953S	7	+	+	+
Violet	EXC40960S	3	-	-	-
Violet fast	* EXC40961S	7	+	+	+
Reflex blue	EXC40962S	4	-	-	-
Reflex blue fast**	* EXC40963S	7	+	+	+
Blue 072	EXC40964S	3	-	-	-
Blue 072 fast**	* EXC40965S	7	+	+	+
Cyan	* EXC40970S	8	+	+	+
Green	* EXC40980S	8	+	+	+
Black	* EXC40990S	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 Excure 40000S 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 40000S 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

- ★ *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 Excure 40000S series 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 Excure 40000S 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.*
- ★ *These high reactivity process colors are registered in Sony Green book under GB No. 17820010-13.*

## AVAILABLE COLOUR SHADES

- ☼ *Process colours*
- ☼ *Mixing system*
- ☼ *Opaque white*

## PACKAGING

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

## ADDITIVES

- |   |                                |                 |
|---|--------------------------------|-----------------|
| ◆ <i>Fountain additive</i>              | <i>pH 5</i>                    | <i>EXC10900</i> |
|   | <i>pH 4.8</i>                  | <i>EXC10910</i> |
| ◆ <i>Wash-up solution</i>               | <i>for manual washing</i>      | <i>EXC10810</i> |
|   | <i>for automatic washing</i>   | <i>EXC10800</i> |
|   | <i>labelling and reg. free</i> | <i>EXC10820</i> |
| ◆ <i>Antitack paste*</i>                |                                | <i>EXC10001</i> |
| ◆ <i>Photoinitiator</i>                 | <i>liquid*</i>                 | <i>EXC10704</i> |
| ◆ <i>Thinner</i>                        |                                | <i>EXC10705</i> |
| ◆ <i>Surface tension pen (38 dynes)</i> |                                | <i>602038</i>   |

\* Ask for advice in case of food packaging.

## 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).*