



Technische Steekkaart
Fiche Technique
Technisches Merkblatt
Technical Data Sheet

TOYO INK
ARETS

EXCURE 20000AP

CHARACTERISTIC

The inks of Excure 20000AP series show very good adhesion on all possible closed substrates.

PROPERTIES

- ☞ Good adhesion
- ☞ Excellent film lamination properties
- ☞ Good 'post-curing' rate
- ☞ The Excure 20000AP series contains carefully selected raw materials to minimise the risk of skin irritation and causes 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
- ☞ Formulated without benzophenone

APPLICATION AREA

- Letterpress
- Wet offset

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

- 300 m/min or 9000 sheets/hour

(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 (surface tension see 'Recommended treatment levels')

- ☞ High gloss paper and board
- ☞ Hard and soft vinyls (corona treated)
- ☞ Coated metals
- ☞ Pre-treated plastic films (polyester, acetate)
- ☞ Pre-treated PP films (e.g. for IML labels)

Preliminary adhesion tests are recommended

AVAILABLE COLOUR SHADES

- ☞ Process colours
- ☞ Other colours: on request

REFERENCES EXCURE 20000AP

		IWS	Alcohol	Nitro	Alkali
<u>Process colours – wet offset</u>					
Yellow	EXC20001AP	5	+	+	+
Magenta	EXC20002AP	5	+	+	-
Cyan	EXC20003AP	8	+	+	+
Black	EXC20004AP	8	+	+	+
<u>Lightfast process inks</u>					
Yellow	EXC20021AP	7	+	-	+
Magenta	EXC20022AP	7	+	+	+
<u>Base Inks</u>					
Mixing white	EXC20900AP				
Opaque white	EXC20901AP				
Transparent white	EXC20902AP				
Yellow	EXC20912AP	5	+	+	+
Yellow fast 6	EXC20913AP	6	+	+	+
Yellow IWS 7	EXC20914AP	7	+	-	+
Warm yellow	EXC20916AP	5	+	+	+
Orange	EXC20920AP	5	+	+	+
Orange fast	EXC20921AP	7	+	+	+
Warm red	EXC20930AP	3	+	+	-
Warm red fast	EXC20931AP	7	+	+	+
Red 032 IWS 7	EXC20933AP	7	-	-	+
Rubine red	EXC20940AP	5	+	+	-
Rubine red fast 6	EXC20941AP	6	+	+	+
Rubine red fast 7	EXC20942AP	7	+	+	+
Rhodamine red	EXC20950AP	3	-	-	-
Rhodamine red fast 7	EXC20951AP	7	+	+	+
Purple*	EXC20952AP	3	-	-	-
Purple fast*	EXC20953AP	7	+	+	+
Violet	EXC20960AP	3	-	-	-
Violet fast	EXC20961AP	7	+	+	+
Reflex blue	EXC20962AP	4	-	-	-
Reflex blue fast*	EXC20963AP	7	+	+	+
Blue 072	EXC20964AP	3	-	-	-
Blue 072 fast*	EXC20965AP	7	+	+	+
Cyan	EXC20970AP	8	+	+	+
Green	EXC20980AP	8	+	+	+
Black	EXC20990AP	8	+	+	+

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

REMARKS

- ★ To improve scuff resistance of non-laminated surfaces, UV-overprint varnishing is recommended.
- ★ Cleaning: it is not necessary to wash the press immediately after printing. The Excure 20000AP 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.
- ★ Shelf life: the Excure 20000AP 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 20000AP 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
- ★ Letterpress plates: the Excure 20000AP 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.

PACKAGING

- 3 kg tins
packed in card board boxes of 12 or 24 kg
packed in palbox of 180 kg
palletbox of 270 kg
palletboxx of 504 kg

ADDITIVES

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

* Ask for advice in case of food packaging.

RECOMMENDED TREATMENT LEVELS (DYNES / CM)

		PE	PP	PVC	PET	PS	PVDC	PU	ABS	PTFE	Silicone
Litho	Min.:	40	40	36	44	42	42	38	42	38	38
	Max.:	50	50	52	56	50	52	52	52	52	52
Letterpress	Min.:	42	40	40	46	42	42	42	45	42	40
	Max.:	54	54	52	60	58	54	56	52	60	56

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.toyoinkarets.com.*