



Technische Steekkaart  
Fiche Technique  
Technisches Merkblatt  
Technical Data Sheet

**TOYO INK**

# EXCURE METALLICS OFFSET

## CHARACTERISTIC

*Silver and gold one and two component offset inks are included in all Excure offset series.*

## PROPERTIES

- 🔊 *Excellent lithographic properties*
- 🔊 *Good metallic effect*

## APPLICATION AREA

- Letterpress*
- Wet offset*

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

- ➔ *200 m/min or 6000 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 (min. surface tension 38 dynes/cm)

- 📄 *All kinds of coated and uncoated paper*
- 📄 *Certain flexible substrates*

*Preliminary adhesion tests are recommended*

## AVAILABLE COLOUR SHADES\*

- 🌸 *Rich gold*
- 🌸 *Pale gold*
- 🌸 *Rich pale gold*
- 🌸 *Silver*

\* *With addition of inks of the Excure Basic Mixing system, one can obtain a whole spectrum of coloured metallic shades.*

## REFERENCES FOR ONE COMPONENT INKS

### Main shades

Rich gold	EXC20888	EXC40888
Rich pale gold	EXC20889	EXC40889
Pale gold	EXC20890	EXC40890
Silver	EXC20887	EXC40887
Metallica silver (mirror effect)		EXC47091

### Copper free inks

Copper free rich gold UV foil Excure	EXC27878
Copper free rich pale gold UV foil Excure	EXC27879
Copper free pale gold UV foil Excure	EXC27880

### Imitation inks (to be printed on Alu substrates)

Imitation rich gold UV foil Excure	EXC27888
Imitation rich pale gold UV foil Excure	EXC27889
Imitation pale gold UV foil Excure	EXC27890

## REMARKS ONE COMPONENT INKS

- ★ An improved metallic effect can be achieved with pre-printing a half tone yellow for gold, and blue for silver.
- ★ Printability is strongly influenced by the paper type. Only when the paper surface can be well wetted with the metallic ink, building up tendency can be reduced.
- ★ One component metallic inks are available, but due to stability risks, these products are not on stock, but are made when ordered.
- ★ For the same reason of stability, we guaranty a shelf life of max. 4 month for one component metallic inks.
- ★ EXC30887 is our one component LO silver.

## REFERENCES FOR TWO COMPONENT INKS

### Pastes

Rich gold paste	EXC10878
Rich pale gold paste	EXC10879
Pale gold paste	EXC10880
Silver paste	EXC10867

### Uv Offset Paste LO/LM

EXC10878M/1
EXC10879M/1
EXC10880M/1
EXC10877M/1

### Varnishes

Excure 20000	EXC20877
	EXC20877M FOOD
	EXC20877EB FOOD
Excure 30000	EXC30877
	EXC30877M FOOD
Excure 40000	EXC40877
Excure 60000	EXC60877

## MIXING RATIOS FOR TWO COMPONENT INKS

Excure series	Standard			Extra rub resistance			Extra metallic effect		
	20000	30000	40000	20000	30000	40000	20000	30000	40000
Silver paste	3	3	3	2	2	2	4	4	4
Varnish	7	7	7	8	8	8	6	6	6
Gold paste	5	5	5	4	4	4	6	6	6
Varnish	5	5	5	6	6	6	4	4	4

## REMARKS TWO COMPONENT INKS

- ★ Depending on the importance of the metallic effect or the rub resistance, different mixing ratios can be used (see mixing ratios) for the two component inks.
- ★ The standard UV rollers based on EPDM rubber can give rise to swelling problems. This is due to the wetting agents used in the manufacturing of these UV metallic pastes. Therefore, when having a long run with UV metallic inks, it could be wise to run with a different type of roller (direction of nitril based rubber). In any case, we recommend you a discussion with your roller supplier.
- ★ An improved metallic effect can be achieved with pre-printing a half tone yellow for gold, and blue for silver.
- ★ The best metallic effect and lithographic behaviour is achieved when printing happens immediately after the mixing.
- ★ Printability is strongly influenced by the paper type. Only when the paper surface can be well wetted with the metallic ink, building up tendency can be reduced.
- ★ For the two component inks, we guarantee a shelf life of 6 months from the date of shipment.

## PACKAGING

- Pastes two components: 1 kg tins
- Varnishes two components: 3 kg tins
- Ink one component: 1 kg tins

## 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    EXC10708  
   paste                                      EXC10704  
   liquid                                      EXC10704  
   liquid for inks                      EXC10045                              (depth cure)  
   liquid for inks                      EXC10060                              (surface cure)
- ◆ 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](http://www.toyoink.eu).*