



Technische Steekkaart
Fiche Technique
Technisches Merkblatt
Technical Data Sheet

TOYO INK

UV FLEXO VARNISHES

LOW ODOUR

CHARACTERISTIC

These UV varnishes are radical UV varnishes, formulated without benzophenone, with very low odour properties.

PROPERTIES

- ☞ *These varnishes can be applied wet-on-dry on conventional inks and wet-on-wet or wet-on-dry on Excure UV inks*
- ☞ *The surface tension of the cured film is typically < 34 mN/m for non gluable varnishes and ± 38 mN/m for gluable varnishes.*
- ☞ *These varnishes are formulated with very low toxicity ingredients*
- ☞ *Low in wet odour and very low odour in the cured print*
- ☞ *These varnishes have very good clarity*
- ☞ *These varnishes are press ready at optimal viscosity*
- ☞ *These varnishes can be used with normal flexo and letterpress plates*
- ☞ *Optimal resistance properties will be obtained 24 hours after printing*

TYPES

- *Radical chemistry*

APPLICATION AREA

- Varnishing machines / coaters*

SUITABLE SUBSTRATES (min. surface tension 38 dynes/cm)

- ☞ *All kinds of paper and board*
- ☞ *Certain corona treated PE-films*
- ☞ *Other substrates: to be tested*

Article	Viscosity 21°C/DIN 4 mm	Cure	Slip	Gloss	Rub / scuff	Property
EXC90004/S	35 – 45 sec	High	High	High	High	Low odour, more reactive and slip
EXC90023	35 – 55 sec	Medium	Low	High	Medium	Gluable, Monomer free
EXC90049	40 – 60 sec	Low	Medium/High	High	Medium	Perfect adhesion
EXC90053	70 – 100 sec	High	Very High	Very low	Medium	Matt
EXC90092	40 – 60 sec	High	Very high	Medium	Very high	Release properties
EXC90095	25 – 40 sec	High	Medium	High	High	Low viscosity
EXC99004	60 – 80 sec	High	High	High	Medium	Gluable / Anti-blocking
EXC99012	40 – 70 sec	High	Low	High	Medium	Gluable, Standard
EXC99037	40 – 65 sec	High	Medium	High	Medium/High	Optical brightener
EXC99053	50 – 70 sec	High	Low	Very low	Medium	Gluable, matt
EXC99055	40 – 60 sec	Very high	High	High	High	Standard
EXC99094	35 – 50 sec	High	Very high	High	Medium	High slip / Anti blocking

PACKAGING

- 10 kg jerry cans
- 25 kg jerry cans
- 200 kg barrels
- 600 kg containers
- 1000 kg containers

ADDITIVES

- ◆ Wash up solution for manual washing EXC10810
 for automatic washing EXC10800
 labelling and reg. free EXC10820
- ◆ Photoinitiator EXC10045
- ◆ Levelling agent EXC10003
- ◆ Thinner EXC10705
- ◆ Slip agent EXC10005
- ◆ Anti penetration additive EXC10013

REMARKS

- ★ Both EPDM and nitril rubber rollers are suitable when using these varnishes.

- ★ *Shelf life: all UV varnishes have 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: UV varnishes should be kept on stock at temperatures between 15 – 20°C and they should not be exposed to direct sunlight. If possible, store the varnish in a dark room.*
- ★ *Stir well before use.*

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.*