



Technische Steekkaart  
 Fiche Technique  
 Technisches Merkblatt  
 Technical Data Sheet

# UV LETTERPRESS 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*

Article	Viscosity Laray (21°C) Poise	Cure	Slip	Gloss	Rub / scuff	Property
EXC90113	40 – 50	High	High	Medium/High	Medium/High	Release properties
EXC90103	50 – 60	High	Medium	Matt (very low)	Medium	Matt
EXC90151	80 – 120	Medium	Low	Medium	Medium	Primer / gluable for film and foil

### TYPES

- *Radical chemistry*

### APPLICATION AREA

- Dry offset*

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

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

## 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.

## PACKAGING

- ☐ 10 kg jerry cans
- ☐ 25 kg jerry cans
- ☐ 200 kg barrels

## ADDITIVES

- |                             |                         |          |
|-----------------------------|-------------------------|----------|
| ◆ Wash up solution          | for manual washing      | EXC10810 |
|                             | for automatic washing   | EXC10800 |
|                             | labelling and reg. free | EXC10820 |
| ◆ Photoinitiator            |                         | EXC10708 |
| ◆ Levelling agent           |                         | EXC10003 |
| ◆ Thinner                   |                         | EXC10705 |
| ◆ Slip agent                |                         | EXC10005 |
| ◆ Anti penetration additive |                         | EXC10013 |

## 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).