



Technische Steekkaart
Fiche Technique
Technisches Merkblatt
Technical Data Sheet

EXCURE ALL ROUND VARNISHES

CHARACTERISTIC

The Excure all round varnishes are radical UV varnishes for all varnishing machines, and flexo units.

PROPERTIES

- ☞ All 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 with non-gluable UV varnish is typically < 34 mN/m
- ☞ The surface tension of the cured film with gluable UV varnish is typically ± 38 mN/m
- ☞ The Excure all round varnishes are formulated with low toxic ingredients
- ☞ Low in wet odour and very low odour in the cured print
- ☞ The Excure all round varnishes have very good clarity
- ☞ The Excure all round varnishes are available press ready at optimal viscosity
- ☞ The Excure all round varnishes can be used with normal flexo plates
- ☞ Optimal resistance properties will be obtained 24 hours after printing

Article	Viscosity 21°C/DIN 4mm	Cure	Slip	Gloss	Rub / scuff	Property
EXC90006	35 – 45 sec	High	High	High	High	Standard
EXC90007	35 – 50 sec	High	Low	High	Medium	Gluable
EXC90008	70 – 80 sec	Medium/ High	Low	Medium/High	Medium	Gluable
EXC90014	45 – 60 sec	High	Medium/High	High	High	Medium viscosity
EXC90018	80 – 100 sec	Medium	High	Very low	High	Matt / rub resistant
EXC90019	35 – 50 sec	High	High	Low	Medium	Satin
EXC90038	50 – 60 sec	High	High	High	High/Medium	High slip version
EXC90046	40 – 60 sec	High	High	Medium/high	High	Anti-blocking
EXC90054	55 – 85 sec	Medium	Medium	Very low	Medium	Matt / gluable
EXC90077	30 – 45 sec	High	High	Medium/high	High	Gluable / Anti-blocking
EXC99025	110 – 130 sec	High	High	High	High	Higher visco than EXC90006
EXC99049	50 – 70 sec	High	Medium/High	High	High	Chemical resistant
EXC99050	60 – 80 sec	Medium	Medium	Very low	Medium	Matt / gluable

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

REMARKS

- ★ Both EPDM and nitril rollers are suitable when using our Excure all round 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
- 600 kg containers
- 1000 kg containers

ADDITIVES

- | | | |
|----------------------------------|-------------------------|----------|
| ◆ Wash up solution | for manual washing | EXC10810 |
| | for automatic washing | EXC10800 |
| | labelling and reg. free | EXC10820 |
| ◆ Photo initiator | | EXC10708 |
| ◆ Levelling agent | Gluable | EXC10030 |
| | Non gluable | EXC10024 |
| ◆ Thinner | | EXC10012 |
| ◆ Slip agent | | EXC10005 |
| ◆ Anti penetration additive | | EXC10013 |
| ◆ Surface tension pen (38 dynes) | | 602038 |

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.*