



# EXCURE RELEASE VARNISHES

## CHARACTERISTIC

The Excure release varnishes are varnishes for varnishing machines or flexo units, for dry offset and for screen printing. Their special characteristics are the high slip properties.

## PROPERTIES

- ☞ All release 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 < 30 mN/m
- ☞ The Excure release varnishes are formulated with low toxicity ingredients
- ☞ Low in wet odour and very low odour in the cured print
- ☞ The Excure release varnishes are available press ready at optimal viscosity
- ☞ The Excure release varnishes can be used with UV blankets, normal flexo or letterpress plates and screens depending on the used application.
- ☞ Optimal properties will be obtained 24 hours after printing

PRINTING PROCESS: FLEXO						
Article	Viscosity 21°C/DIN 4mm	Cure	Slip	Gloss	Rub / scuff	Properties
EXC90010	40 - 50 sec	Medium/high	Very high	Medium	High	Standard
EXC90092	40 - 50 sec	High	Very high	Medium	High	Benzophenone free
EXC97010	50 - 60 sec	High	Very high	Medium	Very high	Benzophenone free
PRINTING PROCESS: DRY OFFSET						
Article	Viscosity in poises	Cure	Slip	Gloss	Rub / scuff	Properties
EXC90168	200 – 250 poises	High	High	Medium	High	Standard
EXC90102	35 - 45 poises	High	High	Medium	Medium/ high	Low visco

PRINTING PROCESS: WET OFFSET						
Article	Viscosity in poises	Cure	Slip	Gloss	Rub / scuff	Properties
EXC90224	150 - 200 poises	High	High	Medium	High	Standard
EXC90212	150 - 200 poises	Very High	High	Medium	High	High reactivity
EXC90226	200 - 250 poises	High	High	Very low	High	Matt

PRINTING PROCESS: SCREEN						
Article	Viscosity 21°C/DIN 4mm	Cure	Slip	Gloss	Rub / scuff	Properties
EXC90311	40 - 60 sec	Medium/High	High	Medium	High	Standard

## TYPES

- Radical chemistry

## APPLICATION AREA

- See printing process

## REMARKS

- ★ These varnishes need to be stirred well prior to using them.
- ★ Both EPDM and nitril rollers are suitable when using our Excure release 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.

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

- ☞ All kinds of paper and board
- ☞ Certain corona treated PE-boards
- ☞ Other film and foils: to be tested

## PACKAGING

- 1 and 3 kg plastic pails
- 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
◆ Photoinitiator FOOD		EXC10045
◆ Levelling agent		EXC10003
◆ Thinner		EXC10012
◆ Slip agent		EXC10005
◆ 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](http://www.toyoinkarets.com).