



EXCURE CAST&CURE VARNISHES

CHARACTERISTICS

Excure Cast&Cure varnishes are UV flexo varnishes which are used with special master films to create hologram and embossing effects.

PROPERTIES

- ☞ Excure Cast&Cure 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
- ☞ Excure Cast&Cure varnishes are formulated with low toxicity ingredients
- ☞ Excure Cast&Cure varnishes are available in standard, low odour and low migration versions.
- ☞ Excure Cast&Cure varnishes have very good clarity
- ☞ Excure Cast &Cure varnishes are press ready at optimal viscosity
- ☞ Can be used with normal flexo and letterpress plates
- ☞ Optimal resistance properties will be obtained 24 hours after printing

Article	Viscosity 21°C/DIN 4mm	Cure	Slip	Gloss	Rub / scuff	Property
EXC90030	35 – 50 sec	Very high	Medium	High	High	Standard
EXC90031	40 – 70 sec	High	Medium	High	High	Low odour
EXC90034	50 – 80 sec	Medium	Medium	High	High/Medium	Low migration

TYPES

- Radical chemistry

APPLICATION AREA

- Varnishing machines / flexo coaters with dedicated Cast & Cure section

GENERAL GUIDELINES

- ☞ The most critical stage in the Cast&Cure process is the separation of the master film from the cured varnish surface. Cast&Cure varnishes give best results with slow varnishing speed.
- ☞ Apply the varnish in thinner layer using the smallest possible volume anilox roll. Thinner layer ensures better curing and better separation from the master film.

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

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

SUITABLE MASTER HOLOGRAM FILMS

- ☞ All kinds of films with surface tension lower than 36 dynes/cm
- ☞ When used with correct settings master film can be re-used several times

REMARKS

- ☞ 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.

PACKAGING

- ☐ 10 kg jerry cans
- ☐ 25 kg jerry cans

ADDITIVES

- ◆ Wash up solution for manual washing EXC10810
- ◆ Wash up solution for automatic washing EXC10800
- ◆ Wash up solution labelling and reg. free EXC10820
- ◆ Photoinitiator for EXC90030 standard EXC10708
- ◆ Photoinitiator for EXC90031 low odour EXC10045
- ◆ Photoinitiator for EXC90034 low migration EXC10045
- ◆ Levelling agent EXC10003
- ◆ Slip agent EXC10005
- ◆ Surface tension pen (34 dynes) 602034
- ◆ Surface tension pen (38 dynes) 602038
- ◆ Surface tension pen (42 dynes) 602042

LOW MIGRATION PRODUCTS INFORMATION

- ☞ EXC90034 is only suitable for use on the non-food contact side of food packaging, provided they are applied using the relevant Good Manufacturing Practices (GMP) and according to the guidelines in this Technical Data Sheet
- ☞ The printer, converter and packer/filler each have a responsibility to ensure that the finished – printed - product is fit for the intended purpose(s) and that the coating components do not migrate into the food at levels that exceed legal, regulatory and industry defined requirements

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.