



Technische Steekkaart
Fiche Technique
Technisches Merkblatt
Technical Data Sheet

EXCURE EB VARNISHES - FLEXO

CHARACTERISTIC

The Excure EB flexo varnishes are photo initiator free varnishes, very low in odour and with very low migration properties for curing with electron beam under N₂ atmosphere.

PROPERTIES

- ☞ The Excure EB flexo varnishes can be applied wet-on-dry on conventional inks and wet-on-wet or wet-on-dry on Excure EB FOOD inks
- ☞ The Excure EB flexo varnishes are formulated with very low toxicity ingredients
- ☞ Low in wet odour and very low odour in the cured print
- ☞ This varnish is press ready at optimal viscosity
- ☞ The Excure EB flexo varnishes can be used with normal flexo and letterpress plates
- ☞ Optimal resistance properties will be obtained 24 hours after printing
- ☞ Best curing at oxygen levels below 100 ppm
- ☞ Good adhesion on paper, board (incl. PE board) and pre-treated plastic films and foils

| Article | Viscosity 21°C/DIN 4 mm | Cure | Slip | Gloss | Rub / scuff | Property |
|------------|-------------------------------|--------|-------------|--------|-------------|--------------------------------|
| EXC90002EB | 35 – 45 sec | High | Medium/High | Medium | Medium/High | Satin |
| EXC90012EB | 60 – 90 sec | High | Medium/High | High | High | Anti-blocking |
| EXC90013EB | 35 – 45 sec | High | High | Medium | Medium/High | Release |
| EXC90014EB | 58 – 70 sec | High | Low | High | Medium/High | Gluable |
| EXC90037EB | 20 – 30 sec | High | Medium/High | High | Medium/High | Contains optical brightener |
| EXC90072EB | 40 – 60 sec | Medium | Low | Medium | Medium | Primer |
| EXC97024EB | 35 – 65 sec | High | High | High | High | Decharging |

TYPES

- Radical chemistry

APPLICATION AREA

- Varnishing machines / coaters / flexo units equipped with EB -curing systems and inert blanketing

EB CURING SPEED (110 kV at 30 kGy)

→ 330 m/min

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

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

REMARKS

- ★ *Shelf life: all EB 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: EB 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.*
- ★ *Cleaning: it is not necessary to wash the press immediately after printing. The Excure EB varnishes will not cure in the press and is therefore ready to use for the next day's printing. However, the ink may start to cure in the press if sunlight or UV-light is allowed to shine on the ink.*
- ★ *Rollers: the following roller material is recommended: EPDM (Ethylene-Propylene-Diene-Monomers). EPDM rollers show excellent performance with EB FOOD-inks. They are not suitable for conventional inks, since they will swell considerably in contact with aliphatic hydrocarbons, which are used in traditional offset inks.*
- ★ *Nitril rubber: nitril rubber rollers show minimal swelling with EB FOOD-inks and conventional inks. Solvents such as glycol and acetates do have a tendency to make this rubber swell. Nitril rubber is recommended when using two component metallic inks.*
- ★ *Stir well before use.*

PACKAGING

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

