

Technical Data Sheet

RBC1L series | Flexo LED series



Products

RBC1LG series | Flexo LED gloss series

| Product | Name | Characteristics | Gloss | Visco 21°C Din 4 |
|-----------|--|---------------------------|--------|---------------------|
| RBC1LG001 | Flexo LED standard varnish | Gloss | High | 40-70" |
| RBC1LG002 | Flexo LED drip off varnish | Gluable, low yellowing | High | 60-90" |
| RBC1LG003 | Flexo LED release varnish | Release | Medium | 60-90" |
| RBC1LG004 | Flexo LED low yellowing varnish | Low yellowing | High | 40-70" |
| RBC1LG005 | Flexo LED high slip varnish | High slip | High | 60-90" |
| RBC1LG006 | Flexo LED benzofree high viscosity varnish | Low odour, high viscosity | High | 90-120" |
| RBC1LG007 | Flexo LED gluable varnish | Gluable | High | 60-100" |
| RBC1LG008 | Flexo LED release for duo label varnish | Release, duo label | High | |
| RBC1LG009 | Flexo LED static for duo label varnish | Static, duo label | High | |
| RBC1LG010 | Flexo LED non yellowing varnish | Non yellowing | High | 50-80" |

RBC1LM series | Flexo LED matt series

| Product | Name | Characteristics | Gloss | Visco 21°C Din 4 |
|-----------|---------------------------------|----------------------------|-------|---------------------|
| RBC1LM001 | Flexo LED matt varnish | Standard | Low | 60-90" |
| RBC1LM002 | Flexo LED matt overprintvarnish | Matt, gluable, transparant | Low | 30-40" |

RBC1LLMG series | Flexo LED low migration gloss series

| Product | Name | Characteristics | Gloss | Visco 21°C Din 4 |
|-------------|--|-------------------------------|-------|---------------------|
| RBC1LLMG001 | Flexo LED low migration gloss varnish | Gloss, overprintvarnish | High | 70-100" |
| RBC1LLMG002 | Flexo LED low migration gloss primer | Gloss, non yellowing, gluable | High | 50-80" |
| RBC1LLMG003 | Flexo LED low migration high slip varnish | High slip, overprintvarnish | High | 50-80" |
| RBC1LLMG004 | Flexo LED low migration gloss primer | Primer | High | 60-90" |
| RBC1LLMG005 | Flexo LED low migration release overprintvarnish | Release, high gloss | High | 60-90" |
| RBC1LLMG006 | Flexo LED low migration gluable varnish | Gloss, gluable | High | 45-75" |
| RBC1LLMG007 | Flexo LED low migration varnish for difficult substrates | Difficult substrates | High | 70-100" |
| RBC1LLMG008 | Flexo LED low migration gluable varnish | Gluable | High | 60-90" |
| RBC1LLMG009 | Flexo LED low migration TTR gloss varnish | TTR | High | 80-100" |
| RBC1LLMG010 | Flexo LED low migration high release varnish | High release, gloss | High | 70-100" |

RBC1LLMM series | Flexo LED low migration matt series

| Product | Name | Characteristics | Gloss | Visco 21°C Din 4 |
|-------------|--|-----------------|-------|---------------------|
| RBC1LLMM001 | Flexo LED low migration matt varnish | Matt, high slip | Low | 120-160" |
| RBC1LLMM002 | Flexo LED low migration gluable matt varnish | Matt, gluable | Low | 100-130" |

Properties

- Adhesion:** Good adhesion on paper, cardboard, OPP lamination film. Adhesion on other substrates should be tested prior to printing.
- Application:** The varnishes are press-ready to print for flexographic printing.
- Odour:** The varnishes are low in odour.
- Drying/curing:** Quick and safe drying/curing with LED lamps with wavelength of 385 nm.
- Others:** The varnishes can be printed over offset inks

LED curing speed

Curing speed is 100MPM or 6000 sheets per hour, with 32W/cm².

The curing depends on the kind of LED curing unit (LED lamps, reflectors, age and power of the LED lamps, the printed ink layer thickness, the distance between lamps and substrate and the belt speed of the LED curing unit). In certain cases the flow and the gloss can be improved by passing prints under IR lamps prior to LED curing.

Post curing

The adhesion of the varnish is best evaluated after 24 hours. In this time interval, a post curing effect takes place during which the varnish cools down and the LED chemical termination reaction happens resulting in better adhesion

Safety

LED varnishes are formulated free of heavy metals and comply with EN 71/3 standard. These varnishes are REACH compliant and free from SVHC substances (Reach annex XIV) and substances mentioned on the latest update of the candidate list. Please consult the MSDS.

Storage and shelflife

Store the varnish in its original closed packaging between 15 and 20°C. Shelf life will be minimum 12 months from date of manufacturing.

Remarks

- a. All surfaces must be free from grease, clean and dry before coating.
- b. The surface to be printed should at least be 38 dynes/cm. Any tension lower than 38 will inevitable result in a poor or no adhesion. We strongly recommend that the surface tension be measured prior to printing in order to avoid claims from the end user of the printed product.
- c. The surface tension of the cured film with non gluable varnish is < 34 mN/m.
- d. We also strongly recommend, before starting the varnishing, to check the print for bleeding resistance, as certain pigments in the inks tend to bleed, when overlacquered with UV varnishes.
- e. All varnishes, but especially satin and matt lacquers, should be well stirred or mixed before use.
- f. The remarks in this TDS apply to the mentioned varnishes in the list.

Packaging

- 5 kg jerrycan
- 10 kg jerrycan
- 20 kg jerrycan
- 200 kg barrel
- 1000 kg IBC

Additives

| Use | Product | Name |
|-----------------------------------|----------|-----------------------------------|
| Cleaning solvent | RBC7C001 | Manual washing agent |
| Photoinitiator for surface curing | RBC7P004 | Photoinitiator for surface curing |
| Photoinitiator for depth curing | RBC7P005 | Photoinitiator for depth curing |
| Leveling agent | RBC7R001 | Flow and leveling agent |
| Anti foam agent | RBC7R003 | Anti foam additive |

For more information and technical support. Please contact RBC-products.

Information on this TDS sheet is meant for guidance. We strongly recommend to test our inks and varnishes before applying them into production.