

Technical Data Sheet

RBC1ULM series | Flexo UV Low migration series



Products

RBC1ULMG series | Flexo low migration gloss series

Product	Name	Characteristics	Gloss	Visco 21°C Din 4
RBC1ULMG001	Flexo UV Low migration TTR Varnish	Thermal Transfer	High	80-100"
RBC1ULMG002	Flexo UV Low migration Release varnish for duolabel	Duolabel	High	60-90"
RBC1ULMG003	Flexo UV low migration Static varnish	Duolabel	High	150-180"
RBC1ULMG004	Flexo UV Low migration High Slip varnish	High slip, gloss	High	80-110"
RBC1ULMG005	Flexo UV low migration Thermal Transfer Varnish	Gloss, TTR	High	80-100"
RBC1ULMG006	Flexo UV standard low migration varnish	Gloss	High	60-100"
RBC1ULMG007	Flexo UV Low migration IML varnish	Gloss, IML	High	70-100"
RBC1ULMG008	Flexo UV low migration Gluable varnish	Gluable, gloss	High	60-100"
RBC1ULMG009	Flexo UV Low migration for foil	Foil	High	50-80"
RBC1ULMG010	Flexo UV Low migration release varnish	Release	High	60-90"
RBC1ULMG011	Flexo UV Low migration gluable high surface tension varnish	High surface tension, gluable	High	50-80"
RBC1ULMG012	Flexo UV Low migration Gloss IML varnish	IML, gloss	High	50-80"
RBC1ULMG013	Flexo UV low migration Gloss primer	Primer	High	60-90"
RBC1ULMG014	Flexo UV Low migration High gloss varnish	Primer, high gloss	High	60-100"
RBC1ULMG015	Flexo UV Low migration non yellowing gloss varnish	Non yellowing, gloss	High	50-80"
RBC1ULMG016	Flexo UV Low migration High release varnish	High release	High	90-120"

RBC1ULMG017	Flexo UV low migration High slip varnish	High slip	High	80-110"
RBC1ULMG018	Flexo UV low migration low odour high gloss varnish	Low odour, high gloss	High	60-90"

RBC1ULMM series | Flexo low migration matt series

Product	Name	Characteristics	Gloss	Visco 21°C Din 4
RBC1ULMM001	Flexo UV Low migration matt gluable varnish	Matt, gluable	Low	100-150"
RBC1ULMM002	Flexo UV Low migration satin varnish	Satin, IML	Medium	50-80"
RBC1ULMM003	Flexo UV Low migration matt varnish	Matt, good runnability and slip	Low	80-120"
RBC1ULMM004	Flexo UV Low migration TTR varnish	Gloss, TTR	High	80-100"

Properties

- Adhesion:** Good adhesion on paper, cardboard, OPP lamination film and a broad series of screen and offset inks. Adhesion on other substrates should be tested prior to printing.
- Flexibility:** These varnishes show good flexibility, when bended or folded.
- 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.
- Others:** The varnishes can be printed over offset inks

UV curing speed

Curing speed is 200MPM with 2 lamps of 120 Watt/cm. The curing depends on the kind of UV curing unit (UV lamps, reflectors, age and power of the UV lamps, the printed ink layer thickness and the belt speed of the UV curing unit). In certain cases the flow and the gloss can be improved by passing prints under IR lamps prior to UV 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 UV chemical termination reaction happens, resulting in better adhesion

Safety

UV 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

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.