Technical Data Sheet

RBC1U series | Flexo UV series

Products

RBC1UG series | Flexo UV gloss series

Product	Name	Characteristics	Gloss	Visco 21°C Din 4
RBC1UG001	Flexo UV high gloss varnish	Standard	High	40-60”
RBC1UG002	Flexo UV overprint for digital inks	Overprint for digital inks	High	50-80”
RBC1UG003	Flexo UV static varnish	Static varnish for duo label	High	60-90”
RBC1UG004	Flexo UV release varnish	Release varnish for film and foil	Medium	50-80”
RBC1UG005	Flexo UV low energy gloss varnish	Low energy	High	40-60
RBC1UG006	Flexo UV release varnish	Release varnish for duo label	High	60-90”
RBC1UG007	Flexo UV low energy drip off varnish	Low energy, gluable	High	60-100”
RBC1UG008	Flexo UV Gluable varnish	Gluable	High	40-60”
RBC1UG009	Flexo UV increased reactivity	Highly reactive	High	50-80”
RBC1UG010	Flexo UV High slip varnish	High slip	High	55-70”
RBC1UG011	Flexo UV primer for difficult substrates	Primer, difficult substrates	High	40-60”
RBC1UG012	Flexo UV Thermal paper gloss varnish	Thermal paper, gloss, benzo-free	High	60-100”
RBC1UG013	Flexo UV anti static varnish	Anti static	High	60-80”
RBC1UG014	Flexo UV rubresistant high gloss varnish	Rubresistant, high gloss	High	60-90”
RBC1UG015	Flexo UV Gloss primer	Difficult substrates	High	100-120”
RBC1UG016	Flexo UV non yellowing gluable benzofree gloss varnish	Benzofree, gluable, non yellowing	High	50-80”
RBC1UG017	Flexo UV overprintvarnish	Gloss	High	40-60”
RBC1UG018	Flexo UV benzofree release varnish for paper and carton	Benzofree, release	High	55-70”
RBC1UG019	Flexo low energy low yellowing gloss varnish	Low energy, low yellowing	High	60-90”

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RBC1UG020	Flexo UV Benzo-free gloss varnish	Benzo-free gloss	High	50-80”
RBC1UG021	Flexo UV gluable benzo-free gloss varnish	Low odour, gluable, benzo-free	High	40-60”
RBC1UG022	Flexo UV gluable for paper/carton/PE/PP	Gluable	High	40-60”
RBC1UG023	Flexo UV high viscosity gloss varnish	High viscosity	High	130-170”
RBC1UG024	Flexo UV anti-slip varnish	Anti slip	High	60-90”
RBC1UG025	Flexo UV outdoor gloss varnish	Exterior	High	60-90”
RBC1UG026	Flexo UV increased reactivity gluable gloss varnish	Gluable, high reactivity	High	50-70”
RBC1UG027	Flexo UV non yellowing primer for exterior	Exterior, non yellowing	High	90-120”
RBC1UG028	Flexo UV high slip gloss varnish	Very high slip Very good adhesion	High	60-90”
RBC1UG029	Flexo UV luminescent benzofree gloss varnish	Luminescent, benzo free	High	50-80”
RBC1UG030	Flexo UV high slip gloss varnish	Gloss, high slip, for tubeprinting	High	40-60”
RBC1UG031	Flexo UV low odour gloss varnish	Benzofree, high reactivity, low odour	High	80-100”
RBC1UG032	Flexo UV Gluable high gloos varnish	Gluable, high gloss, benzofree	High	40-75”
RBC1UG033	Flexo UV coldfoil adhesive	Coldfoil	High	150-180”
RBC1UG034	Flexo UV high release varnish	High release, high slip properties	High	60-90”
RBC1UG035	Flexo UV gloss varnish	Gloss, not gluable, overprinting digital inks	High	180-220”
RBC1UG036	Flexo UV gloss overprintvarnish	Overprintvarnish	High	60-80”
RBC1UG037	Flexo UV High build flexible varnish	High build flexible	High	190-240”

RBC1UM series | Flexo UV matt series

Product	Name	Characteristics	Gloss	Visco 21°C Din 4
RBC1UM001	Flexo UV standard matt varnish	Matt	Low	40-60”
RBC1UM002	Flexo UV matt primer for difficult substrates	Matt primer, Difficult substrates	Low	150-180”
RBC1UM003	Flexo UV matt nong yellowing benzofree varnish	Non yellowing, benzofree	Low	60-90”
RBC1UM004	Flexo UV soft touch	Soft touch	Low	70-100”
RBC1UM005	Flexo UV Pearlescent varnish	Pearlescent, silky matt	Medium	80-120”
RBC1UM006	Flexo UV matt voor Anylox	Matt	Low	/
RBC1UM007	Flexo UV matt release varnish	Matt, release	Low	70-100”
RBC1UM008	Flexo UV extra matt low viscosity	Extra matt, low viscosity	Low	90-120”
RBC1UM009	Flexo UV Silky matt varnish	Matt, good runability	Low	60-90”
RBC1UM010	Flexo UV rough texture varnish	Rough texture, matt	Low	N.A.
RBC1UM011	Flexo UV low energy matt varnish	Low energy, matt	Low	/
RBC1UM012	Flexo UV matt anti graffiti varnish	Matt, anti graffiti	Low	N.A.
RBC1UM013	Flexo UV low energy matt varnish	Low energy	Low	40-60”
RBC1UM014	Flexo UV low energy Satin varnish	Low energy, satin	Medium	60-100”
RBC1UM015	Flexo UV satin varnish	Satin	Medium	70-100”
RBC1UM016	Flexo UV low odour satin varnish	Low odour, satin, not gluable	Medium	60-90”
RBC1UM017	Flexo UV extra matt medium viscosity	Matt, medium viscosity	Low	120-150”
RBC1UM018	Flexo UV extra matt high viscosity	Matt, High viscosity	Low	150-180”
RBC1UM022	Flexo UV matt overprintvarnish	Matt, overprintable	Low	20-40”

Properties

a. **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.
b. **Flexibility**: These varnishes show good flexibility, when bended or folded.
c. **Application**: The varnishes are press-ready to print for flexographic printing.
d. **Odour:** The varnishes are low in odour.
e. **Drying/curing:** Quick and safe drying/curing.
f. **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

Additives

Use	Product	Name
Wash solution for manual washing	RBC7C001	Manual washing agent
Wash solution for automatic washing	RBC7C002	Automatic washing agent
Thinner	RBC7R002	Thinner

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.

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