Technical Data Sheet

RBC5 UV Wood series

Product series

RBC5UG0 series | Primer/filler for wood series

Product	Name	Characterisitic	Curing	Slip	Gloss	Visco 21°C
RBC5UG001	UV heavy primer wood	Standard	Medium	Medium	Medium/High	30-60 poises
RBC5UG002	UV light primer for exterior wood	Exterior	Medium	Medium	Medium/Low	20-50 poises
RBC5UG003	UV Flexible sealer wood	Flexible sealer	Medium	Medium	Medium/low	30-60 poises
RBC5UG004	UV primer wood high transparency	High transparency	Quick	Low	High	30-60 poises
RBC5UG005	UV hydro primer wood	Hydro-UV	Medium	Low	Low	200-250" DIN 6 cup
RBC5UG006	UV hydro primer opaque white wood	Hydro-UV opaque white	Medium	Low	Low	90-120" DIN 4 cup
RBC5UG007	UV gravure primer for OSB	Primer OSB	Medium	Low	Medium	N.A.
RBC5UG008	UV gravure primer heavy putty	Heavy putty	Medium	Low	Medium	N.A.

RBC5UG1 series | Base coatings for wood series

Product	Name	Characteristics	Curing	Slip	Gloss	Visco 21°C
RBC5UG100	UV standard rollercoat for wood	Standard rollercoat	Medium	Low	Low	30-60 poises
RBC5UG101	UV spraying basecoat for wood	Spray basecoat	Quick	Low	Medium/high	50-80" DIN 4 cup
RBC5UG102	UV basecoat white for wood	Basecoat, opaque white	Quick	Medium	Medium/High	N.a.

RBC5UG2 series | Topcoatings for wood series

Product	Name	Characteristics	Curing	Slip	Gloss	Visco 21°C
RBC5UG200	UV topcoat white for wood	Opaque white gloss	Quick	Medium	High	

Radiation Based Crosslinking products
Posthoornstraat 53 unit 1D
9870 Zulte
Belgium

tel: +32 476 / 84 50 81 | email: info@rbc-products.com

RBC5UG201	UV topcoat matt white for wood	Matt, opaque white low viscosity	Quick	Medium	Low	
RBC5UG202	UV topcoat white low viscosity for wood	Opaque white, low viscosity	Quick	Medium	Low	
RBC5UG203	UV topcoat for engraved roller	For engraved rubber rollers	Quick	Medium	Low	
RBC5UG204	UV topcoat for interior MDF	For interior MDF	Quick	Medium	Medium	80-100" DIN4
RBC5UG205	UV topcoat for concrete formwork	Resistant, hard curing	Quick	Low	Medium	20-50 poises
RBC5UG206	UV sprayable topcoat for concrete formwork	Sprayable	Quick	Medium	High	50-80"

Characteristics

The RBC UV wood varnishes are usable for laminated furniture, laminated panels, different types of wood,.. The varnishes can be printed in flexo, with varnish units or with varnish machines. In general wood and parquet varnishes consist of different layers. At least one layer of primer or filler is applied on to the wood to ensure good adhesion of the system. When applying two or more layers of the basecoating, the total layer will provide the abrasion resistance. The topcoat will provide the scratch resistance, chemical resistance and the final aspect/view of the coating (gloss/matt/color/..). We recommend sanding between the different layers.

Properties

a. **Application:** All varnishes can be applied wet-to-dry to water-and solventbased coatings and wet-to-wet or wet-to-dry on UV coatings
b. **Surface tension toplayer:** the surface tension of the dried top layer is always <34mN/m
c. **Surface tension in between layer**: the surface tension of the dried in between layer is always +/- 38mN/m
d. **Toxicity:** our wood varnishes are made with low toxicity products
e. **Odour:** our wood varnishes are low odour wet and dried
f. **Delivered:** our coatings are ready to use delivered with the ideal viscosity
g. **Application method**: our varnishes can be used in different printing applications
h. **Resistance properties**: the full resistance properties will be achieved 24h after applying the varnish

Specific properties

- **Primers/fillers**
  - Ready to sand after curing
  - Low yellowing
  - Good chemical resistance
  - Heat resistant
  - Very good adhesion on different types of wood
  - Layer thickness: 6-24µm
  - Excellent filling capacity
- **Basecoatings**
  - Low yellowing
  - Good chemical and abrasion resistance

  - Very good adhesion
  - Good sanding properties
  - Layer thickness: 2 or 3 x 18-24µm
  - Meets the standard hardness test requirement
- Topcoatings
  - Low yellowing
  - Good chemical resistance
  - Heat resistant
  - Very good adhesion
  - Very good stain resistance against different fluids, soaps and detergents
  - High scratch resistance
  - Layer thickness: 12-24 µm
  - Meets the standard hardness test requirements

Substrates

All different kinds of wood and laminated panels (min surface tension 38 dynes/cm)

Storage and shelflife

We garantuee a shelflife of 12 months on our products. This 12 months start counting from the production date (expiry date is mentioned on the labels). To garuantee the shelf life following measures should be taken: UV varnishes should be stored between 15 and 20°C en cannot be exposed to direct sunlight. If possible we recommend to store our products in a dark room. Never transport or store the varnishes at a temperature lower then 5°C.

Remarks

a. EPDM as nitril can be used with our UV wood coatings
b. Stirr well before use
c. Coloured or tinted primers/fillers, basecoatings or topcoatings can be delivered on demand.

Packaging

- 10 kg bucket/jerrycan
- 20 kg bucket/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
Photoinitiator for transparant systems	RBC7P003	Photoinitiator
Photoinitiator for colored systems	RBC7P002	Liquid photoinitiator
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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tel: +32 476 / 84 50 81 | email: info@rbc-products.com