



NewV lac[®] gloss for UV curing

For coating unit, over digital prints

NewV lac gloss varnishes offer brilliance as well as high mechanical stability and chemical resistance to protect and to upgrade the printed product.

Digital prints have lower surface tension than the conventional UV inks. Therefore they need special coatings. The products listed below were developed for this requirement for coating unit applications with conventional mercury vapour lamp. They are suitable over most inkjet and toner types and most substrates.

These varnishes have high reactivity, very good running characteristics, the cured film has even surface, low tendency to yellowing, low odour and high heat resistance. The products below do not include volatile solvents, their application does not lead to VOC emission. They are ITX and benzophenone free.

Name	Description	Sales Code	Gloss ¹⁾	Viscosity ²⁾			Slip ¹⁾	Adhesion ¹⁾
				DIN 4mm [23°C]	B4 cup [30°C]	Zahn 3 [25°C]		
NewV lac gloss digital	Standard gloss varnish with especially low foaming properties. For very good mechanical protection.	60UC9264	9	45	45	20	7	7
NewV lac gloss digital high viscosity	Gloss varnish with high viscosity, very low odour and very good chemical and alcohol resistance. Recommended also for more absorbent substrates.	60UC9256	9	85	85	35	8	7
NewV lac gloss digital stampable	Stampable gloss varnish, recommended also for thermal transfer overprinting. It can be used also as primer. Includes no silicon.	60UC9263	9	45	45	20	1	n.a. ³⁾

¹⁾ On a scale from 1 to 10 (1=low, 10=high)

²⁾ Viscosity measurement tolerance ± 5 sec.

³⁾ Not applicable because of the strong adhesion between the tape and the varnish.

Substrates

- Coated papers and cardboards
- Metalized substrates
- Plastic substrates such as PE, PET, PP, OPP, BOPP, PVC, etc.

In case of plastic substrates minimum 38 dyne/cm surface tension is required to achieve good adhesion. By the reason of the quality differences between the available plastic substrates, we recommend to conduct test before starting the commercial printing.

Application

Rollers	EPDM	
Anilox	Lines/cm	80 – 180
	Cell volume	6 - 16 cm ³ /m ² *
		Depending on the substrate

Stir well before use!

*Please consider that the quality of the dried varnish layer depends on the substrate surface as well. Highly absorbent papers and cardboards can cause insufficient curing, lower gloss values, poor slip properties and rub resistance problems.

Stampable varnishes are recommended for hot- and cold-foil stamping, UV overprinting and for most thermal transfer overprinting applications. But based on the different thermal transfer printers available on the market, we recommend carrying out a test before the commercial print run.

Inks containing pigments with weak fastness properties, as well as mixtures from these colours, may change shade after UV coating.

Applying UV varnish on a non-sufficiently dried ink layer can cause trapping problems (evaporating fuser oils, substances from the toner, etc). The result can be not even surface, pin-holing, the well-known "orange peel effect", or the poor adhesion to the ink layer.

For further application information please read our technical information sheet *50.G.001 UV curing inks and varnishes for offset printing - Directions for use*.

Auxiliaries

For information please read our technical information *50.A.002 NewV sup Auxiliaries for UV varnishes*.

Food and confectionery packaging

The products listed above are not suitable for printing primary food packaging or secondary packaging where the primary layer is not a barrier against migration of substances from the printed layer to the packed product. More information on the subject of packaging for food, cosmetics, pharmaceutical products, tobacco can be found in the information sheet *50.G.002 NewV for food packaging*. Please also find information on the webpage of the European Printing Ink Association: www.eupia.org.

In case you are interested in UV varnishes for the applications mentioned above, please contact us for recommendations.

Classification

Safety data sheet is available on request.

Shelf life

The minimum shelf life of these products is 12 months from the production date if the container is not opened. But dependent on the storing and handling conditions, they can be usable much longer. For extending the warranty period, please contact our sales representatives.

Further information: Store between 5 - 25°C. Higher storage temperature may reduce shelf life. Protect from frost and sunlight. The cans need to be closed back immediately after usage.

Packaging

10 kg one-way can
25 kg one-way can
200 kg one-way drum
1000 kg one-way container