NewV lac® matt for UV curing

For duct unit

NewV lac matt duct unit varnishes are good alternatives case no coating unit is available. They offer special appearance, high mechanical stability and chemical resistance to protect and to upgrade the printed product.

The varnishes listed below are developed for off-line and in-line duct unit applications with conventional mercury vapour lamp systems. They have high reactivity, even and homogenous surface, very good running characteristics and low tendency to yellowing.

NewV lac matt varnishes listed below do not include volatile solvents, therefore their application does not lead to VOC emission. They are ITX free and with two exemptions also benzophenone free.

Name	Description	Sales Code	Gloss[1)]	Slip[1)]	Adhesion[1)]
NewV lac matt	Matt varnish with good slip properties and very good adhesion on non-absorbent substrates. Includes benzophenone.	**40UC6100**	4	7	8
NewV lac matt stampable	Matt varnish with decreased slip properties and very good adhesion on non-absorbent substrates. Recommended also for thermal transfer overprinting - prior tests are needed. Includes no silicon. Includes benzophenone.	**40UC6150**	4	4	n.a. [2)]
NewV lac satin stampable	Satin varnish with good slip properties and very good adhesion also on non-absorbent substrates. Recommended also for thermal transfer overprinting - prior tests are needed. Includes no silicon.	**40UC3204**	7	7	n.a. [2)]
NewV lac matt	Standard matt varnish for good rub resistance.	**40UC5250**	5	7	9
NewV lac matt stampable	Stampable matt varnish with good slip properties. Recommended also for thermal transfer overprinting - prior tests are needed. Includes no silicon.	**40UC5254**	5	7	n.a.[2)]

[1)] On a scale from 1 to 10 (1=low, 10=high)
[2)] 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

Recommended rollers and blanket materials: EPDM and nitrile

The higher layer thickness does not result in better matt effect, but may cause quality problems. The matt powder can settle on the surface and decrease the rub and scratch resistance of the print.

Depending on the images, the varnish may build up on the coating blanket. In this case manual cleaning may be necessary.

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, poor slip properties and rub resistance problems.

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. The result can be not even surface, pin-holing, the well-known “orange peel effect”, or the poor adhesion to the ink layer.

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.

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

2,5kg one-way can
10 kg one-way can

Contact addresses for advice and further information can be found under www.hubergroup.com This Technical information sheet reflects the current state of our knowledge. It is designed to inform and advise. We assume no liability for correctness. Modifications may be made in the interest of technical improvement.