



NewV[®] poly premium

UV curing ink for sheet-fed offset, rotary and narrow web offset printing on non-absorbent substrates

The **NewV poly premium** series were developed to fulfil the new requirements of printing and to decrease the possibility of swelling problems of nitrile-butadiene-rubber (NBR) roller coverings and blankets.

The **NewV poly premium** inks have very good adhesion on non-absorbent substrates. They are suitable for sheet-fed, rotary label (letterpress) and narrow web printing with standard mercury lamp curing unit.

These inks include no volatile solvents, therefore they are VOC free. They do not include ITX, benzophenone and 4-methyl-benzophenone either.

Properties

- Sensory neutral
- PTFE-wax free
- Optimized for NBR and EPDM rollers
- Very good adhesion on non-absorbent substrates
- Suitable for alcohol free and reduced printing
- Fast curing
- High colour intensity
- Good dot-gain behaviour
- Good transfer
- Low odor
- ITX, benzophenone and 4-methyl-benzophenone free
- Rapid adjustment of a stable ink / water balance
- Colour shades in accordance with ISO 2846-1
- Very good performance on high-speed machines

Process colours	Sales code	Fastness properties according to ISO 12040 / ISO 2836				
		Light WS	Alcohol	Solvent	Alkali	UV varnish
Yellow	41 UP 5000	5	+	+	+	+
Magenta	42 UP 5000	5	+	+	-	+
Cyan	43 UP 5000	8	+	+	+	+
Black	49 UP 5000	8	+	+	+	+
Black intensity	49 UP 5010	8	+	+	+	+
Lightfast version						
Yellow transparent	41 UP 5001	6	+	+	+	+
Magenta	42 UP 5001	6	+	+	+	+

+ yes - no

Substrates

The **NewV poly premium** series are suitable for:

- Pre-treated, non - absorbent substrates such as PE, PET, PP, BOPP, PVC, PS, etc.
- Aluminium - vaporised paper and board¹ and card stocks
- Aluminium foils ¹
- Are tested for deinkability according to INGEDE method 11 for coated and uncoated substrates

Applications

Recommended roller coverings and blankets: EPDM and NBR

These products are also suitable for printing in-mould labels, but by the reason of the quality difference of the substrates in the market, we recommend to obtain tests, before starting the commercial production.

The adhesion of UV curing inks and varnishes to plastic films, cast-coated stocks and pre-treated metal surfaces may be negatively influenced by separating agents, lubricants or plasticisers adhering to these surfaces (especially plastic films). We recommend not printing on metal surfaces that are not pre-treated due to unfavourable adhesion characteristics between UV ink/varnish films and the substrate surface.

The good resistance result of the adhesive (Scotch) tape test does not necessarily imply good scratch resistance (nail test). In such cases the application of a UV curing varnish can help to improve the scratch resistance. Due to the differences between wide ranges of substrates mentioned above, we recommend you to carry out tests before you start the commercial print run.

For further information please find the technical information sheets of **NewV lac** varnishes and the technical information sheet *50G001 UV curing inks and varnishes for offset printing – Direction for use* on our website.

Printing auxiliaries

The **NewV poly** inks are ready to use products. In case small adjustments are needed for special requirements, please find the recommended additives in our technical information sheet: *50A001 NewV sup_Auxiliaries for UV offset printing*.

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.

Shelf life

The minimum shelf life of these products is 18 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.

¹ Non – absorbent substrates must have a surface tension of at least 38 mN/m in order to ensure optimum ink adhesion. We generally recommend running an adhesion test before beginning the actual print run.

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

2.5 kg cans

200 kg drum