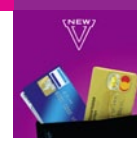




## Technical Information

5.06.01 | 06.2009 | UV-curing inks and varnishes



# NewV poly® – UP 5000

The UP 5000 series of UV inks has been developed for sheet-fed offset, rotary label (letterpress) and continuous forms printing on non-absorbent substrates. The UP 5000 series has very good adhesion properties. The UP inks are formulated free of ITX.

NewV poly - UP 5000		Fastness properties per DIN 16 524/25				
Euroscale		Light WS	Alcohol	Solvent mixture	Alkali	UV varnish
Yellow	41 UP 5000	5	+	+	+	+
Magenta	42 UP 5000	5	+	+	-	+
Cyan	43 UP 5000	8	+	+	+	+
Black	49 UP 5000	8	+	+	+	+
<b>Lightfast version</b>						
Yellow	41 UP 5001	7	+	-	+	+
Yellow transparent	41 UP 5002	7	+	+	+	+
Magenta	42 UP 5001	7	+	+	+	+

## Special properties

- Good adhesion on non-absorbent substrates
- High colour intensity
- Rapid adjustment of a stable ink / water balance
- Colour shades in accordance with DIN ISO 2846-1/12647-2

## Range of applications

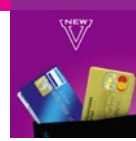
The UP 5000 series is suitable for:

- Pretreated, non-absorbent substrates such as PE, PP, PVC, PS, etc.
- Aluminium-vaporised paper and board\* and card stocks
- Aluminium foils\*

We recommend application of a UV varnish in order to provide effective protection of the print image (see TI 5.10.02 entitled "NewV lac for UV curing").

\* Non-absorbent substrates must have a surface tension of at least 38 mN/m in order to ensure optimum ink adhesion. In view of the large number of substrate suppliers and different substrates and substrate grades available, we recommend you carry out an adhesion test prior to beginning the print run.

The adhesion of UV-curing inks and varnishes to plastic films, cast-coated stocks and pretreated metal surfaces may be negatively influenced by separating agents, lubricants or plasticisers adhering to these surfaces (especially plastic films). (We advise against printing on unpretreated metal surfaces due to unfavourable adhesion characteristics between UV ink / varnish films and the substrate surface.) Good resistance to the adhesive (Scotch) tape test does not necessarily imply good scratch resistance (nail test). In such cases, overvarnishing with UV-curing varnishes can help improve



scratch resistance. At any rate, UV-cured inks and varnishes must have good tape resistance in order to ensure trouble-free further processing. Due to the differences between the various materials mentioned above, we recommend you carry out tests prior to beginning the print run.

## More information

For more information, see TI 5.01.01 entitled “NewV UV-curing inks and varnishes”.

## Food and confectionery packaging

More information on the subject of food and confectionery (semi-luxury foods and tobacco) packaging can be found in the information sheet entitled “Printing inks for food packaging” published by the German Printing Ink Manufacturers’ Association and in TI 5.04.01 entitled “NewV UV inks and varnishes for food packaging”.

## Printing auxiliaries

The inks are always supplied ready to use. The following auxiliaries are available to help you adjust the process inks in exceptional cases:

- **NewV sup Paste Reducer 40 U 1002 (reduces tack)**
- **NewV sup Activator Paste 40 U 1003**

For further auxiliaries, see TI 5.12.01 entitled “NewV sup UV printing auxiliaries”.

## Classification

Safety Data Sheet available on request.

## Shelf life

At least 12 months when stored under the correct conditions (20°C, protected against heat and light).

## How supplied

2.5-kg cans