



NewV pack

ITX- and PTFE-free UV process ink for sheet-fed offset, rotary and narrow web offset printing on absorbent substrate

NewV pack series are ITX and PTFE free, low odour and high colour intensity inks, developed for premium packaging on absorbent substrates. They are recommended for sheet-fed offset, rotary label (letterpress) and narrow web offset applications with mercury lamp curing unit.

Properties

We recommend the **NewV pack UG 5000** series for high performance applications (also for high speed narrow web machines) with the following properties:

- Higher reactivity, fast curing
- Rapid adjustment of a stable ink / water balance
- High gloss
- Low dot gain
- Good transfer
- IPA free printing
- High mechanical resistance
- Suitable for cold laser printers and cold-foil stamping (test is necessary). For hot laser printing applications, the use of the NewV set HS UEH5000 is recommended
- Colour shades in accordance with ISO 2846-1 and ISO 12647-2
- Optimized for NBR and EPDM rollers

Process colours	Sales code	Fastness properties according to ISO 12040 / ISO 2836				
		Light WS	Alcohol	Solvent mixture	Alkali	UV varnish
Yellow	41 UG 5000	5	+	+	+	+
Magenta	42 UG 5000	5	+	+	-	+
Cyan	43 UG 5000	8	+	+	+	+
Black	49 UG 5000	8	+	+	+	+
Deep Black	49 UG 5010	8	-	-	+	+

We recommend the **NewV pack UG 4000** series for standard applications with the following properties:

- Stable ink / water balance
- Fast curing
- High gloss
- Low dot gain
- Good transfer
- High mechanical resistance
- Wide range of fountain solution tolerance
- Suitable for cold laser printers and cold-foil stamping (test is necessary). For hot laser printing applications, the use of the NewV set HS UEH5000 is recommended
- Colour shades in accordance with ISO 2846-1 and ISO 12647-2
- Optimized for NBR and EPDM rollers

Process colours	Sales code	Fastness properties according to ISO 12040 / ISO 2836				
		Light WS	Alcohol	Solvent mixture	Alkali	UV varnish
Yellow	41 UG 4000	5	+	+	+	+
Magenta	42 UG 4000	5	+	+	-	+
Cyan	43 UG 4000	8	+	+	+	+
Black	49 UG 4000	8	+	+	+	+
Lightfast versions						
Yellow	41 UG 4001	7	+	-	+	+
Magenta	42 UG 4001	6	+	+	+	+

Substrates

The **NewV pack** series are suitable for:

- Coated and uncoated papers and cardboard stocks.
- The UG5000 is tested for deinkability according to INGEDE method 11 for coated substrates
Conditionally recommended for pre-treated PE, PP (corona or gas flame) or pre-primed material¹
- Top-coated grades of board¹

Applications

By the reason of the high mechanical stability of the cured ink layer, on coated papers no varnish protection is needed, however in case of special substrates or more demanding applications we recommend to use UV varnish in order to provide effective protection for the printed image (see Technical information about "NewV lac for UV curing").

Please consider that highly absorbent stocks can significantly reduce the curing speed and the surface properties.

Printing auxiliaries

The **NewV pack** 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 energy curing offset printing*.

Food and confectionery packaging

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.

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.

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