



NewV set

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

NewV set series are high colour intensity inks, developed for 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 set UE 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
- Suitable for laser printers, hot-foil and cold-foil stamping (test is necessary)
- Colour shades in accordance with ISO 2846-1 and ISO 12647-2

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

We recommend the **NewV set UE 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
- Low dot gain
- Good transfer
- IPA free printing
- High mechanical resistance
- Suitable for laser printers, hot-foil and cold-foil stamping (test is necessary)
- Colour shades in accordance with ISO 2846-1 and ISO 12647-2

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

We recommend the **NewV set UE 5600** series when a **high viscosity** ink is necessary. The further properties are the same as in case of the NewV set UE 5000:

- Higher reactivity, fast curing
- Rapid adjustment of a stable ink / water balance
- Low dot gain
- Good transfer
- IPA free printing
- High mechanical resistance
- Suitable for laser printers, hot-foil and cold-foil stamping (test is necessary)
- Colour shades in accordance with ISO 2846-1 and ISO 12647-2

Process colours	Sales code	Fastness properties according to ISO 12040 / ISO 2836				
		Light WS	Alcohol	Solvent mixture	Alkali	UV varnish
Yellow	41 UE 5600	5	+	+	+	+
Magenta	42 UE 5600	5	+	+	-	+
Cyan	43 UE 5600	8	+	+	+	+
Black	49 UE 5600	8	+	+	+	+

Substrates

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

- Coated and uncoated papers and cardboard stocks.
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.

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 about *NewV UV inks and varnishes for food packaging*.

Printing auxiliaries

The **NewV set** 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*.

Classification

Safety data sheet is available on request.

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.

Shelf life

12 months from the delivery date if the container is not opened.

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