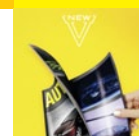




Technical Information

5.05.01 | 06.2009 | UV-curing inks and varnishes



NewV brid® – UH 8900

The UH 8900 series has been developed for hybrid sheet-fed offset printing. Thanks to their special formulation, the NewV brid inks are suitable for use in conventionally equipped sheet-fed offset presses with UV curing*.

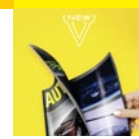
NewV brid - UH 8900		Fastness properties per DIN 16 524/25				
Euroscale		Light WS	Alcohol	Solvent mixture	Alkali	UV varnish
Yellow	41 UH 8900	5	+	+	+	+
Magenta	42 UH 8900	5	+	+	-	+
Cyan	43 UH 8900	8	+	+	+	+
Black	49 UH 8900	8	+	+	+	+
Lightfast version						
Yellow	41 UH 8901	7	+	-	+	+
Magenta	42 UH 8901	7	+	+	-	+

Special properties

- Can be used with conventional roller materials; no need to install special equipment on the press*
- High colour intensity
- Rapid adjustment of a stable ink / water balance
- Wide range of fountain solution tolerance
- Colour shades in accordance with DIN ISO 2846-1/12647-2
- Can be UV-varnished inline (without primer)
- High gloss values can be achieved in combination with UV varnish

The inks can be varnished with UV varnishes without any need to use primer. This means inks and varnishes can be applied wet-on-wet on presses equipped with just one varnishing unit.

* Investigations conducted with regard to the resistance properties (swelling / shrinking) of conventional roller coverings have not revealed any problems. Nevertheless, we do not as yet have any long-term empirical values we can draw on, which leads us to recommend that you use special materials suitable for alternating use of conventional and UV inks in order to be on the safe side. If you use NewV brid for only a small share of your print jobs (up to 15%), we do not expect any problems to arise if you continue to work with conventional roller coverings. Due to the different conditions that prevail for each job – over which we have no influence – we are not able to accept liability for any possible effects the products may have on roller coverings. Variations in the conditions prevailing on the press can lead to different results with respect to swelling, etc.



Range of applications

The UH 8900 series is suitable for:

- Coated and uncoated papers and card stocks
Highly absorbent stocks can greatly reduce the curing speed.
- Top-coated grades of board**

** 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.

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").

Matt finish effects

Matt finish effects and certain structural effects can be achieved by combining NewV set / NewV brid inks and NewV lac varnishes with conventional oil-based varnishes. If you would like more information in this regard, please contact us.

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:

- up to 3% **NewV sup Hybrid Thinner 40 U 1405**

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

Contact addresses for advice and further information can be found under www.NewV-inks.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.