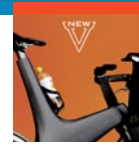




## Technical Information

5.08.05 | 06.2009 | UV-curing inks and varnishes



# NewV flex N2<sup>®</sup> - UF 8000

The UF 8000 series of UV inks has been developed for printing labels and secondary packaging on UV flexo presses with nitrogen neutralisation.

| NewV flex N2 <sup>®</sup> - UF 8000 |            | Fastness properties per DIN 16 524/25 |         |                 |        |
|-------------------------------------|------------|---------------------------------------|---------|-----------------|--------|
|                                     |            | Light WS                              | Alcohol | Solvent mixture | Alkali |
| Yellow opaque                       | 61 UF 8000 | 5                                     | +       | +               | +      |
| Magenta                             | 62 UF 8000 | 5                                     | +       | +               | -      |
| Cyan                                | 63 UF 8000 | 8                                     | +       | +               | +      |
| Black                               | 69 UF 8000 | 8                                     | +       | +               | +      |
| lightfast                           |            |                                       |         |                 |        |
| Yellow                              | 61 UF 8001 | 7                                     | +       | +               | +      |
| Magenta                             | 62 UF 8001 | 7                                     | +       | +               | +      |

Naturally, in addition to the process colours, we can also formulate any shade you would like on this basis.

### Special properties

- Fast-curing ink series (up to 150 m/min) with good fastness properties
- Suitable for use with UV curing units with nitrogen neutralisation only
- Good flow properties
- Low-odour formulation
- Good adhesion
- ITX-free formula
- VOC-free
- Suitable for rubber and photopolymer plates.

### Printing stocks\*

LDPE, HDPE, coextruded PP, PP-Folie, nitrocellulose-varnished aluminium foil, board, paper, polyester film pretreated before printing, PVdC-coated and PVC-films, PA/PE film, thermal paper.

### Range of applications

Labels, flexible packaging and folding boxes.

\* 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.



## Recommended application rates

|   | Process inks | PANTONE® | Areas   |
|---|--------------|----------|---------|
| Lines /cm   | 300-500      | 160-180  | 120-180 |
| Lines / inch                                      | 760-1270     | 400-460  | 300-460 |
| Pick-up volume (cm <sup>3</sup> /m <sup>2</sup> ) | 2-4          | 5-6      | 5-10    |
| Angle   | 60           | 60       | 60      |
| Application rate g/m <sup>2</sup>                 | 0.6-1.2      | 1.6-1.8  | 1.6-3.0 |

## Printing auxiliaries

|                                       |           |            |
|---------------------------------------|-----------|------------|
| <b>NewV sup</b> ® Reducer, Coloured   | 60 U 1001 | max. 10 %  |
| <b>NewV sup</b> ® Reducer, White      | 60 U 1002 | max. 10 %  |
| <b>NewV sup</b> ® Activator, Coloured | 60 U 1003 | max. 5 %   |
| <b>NewV sup</b> ® Activator, White    | 60 U 1004 | max. 5 %   |
| <b>NewV sup</b> ® Slip Additive       | 60 U 1009 | max. 3 %   |
| <b>NewV sup</b> ® Adhesion Promoter   | 60 U 1012 | max. 10 %  |
| <b>NewV sup</b> ® Defoamer            | 60 U 1013 | max. 0.5 % |
| <b>NewV sup</b> ® Washup Solution     | 60 U 1000 |            |

## Application instructions

Test the adhesion of the inks on the print-run substrate before printing. Stir the ink well before use and do not mix with products from other series. Use only the recommended auxiliaries.

The products of the **NewV flex N2**® series contain components that cure by radical mechanism.

Owing to the nitrogen neutralisation, the inks can be formulated to contain fewer photoinitiators. Empirical evidence reveals that the inks are particularly low on odour and organoleptically neutral. The inks on the **NewV flex N2**® series are suitable solely for printing with nitrogen-neutralised UV lamps and not with standard mercury UV lamps.

## Thermosteransfer / hot foil stamping / overprintability

In view of the large number of substrate suppliers and different substrates, hot-stamping foils, toners, etc. available, we recommend you carry out a test prior to beginning the print run.

## Food and confectionery packaging

The inks of **NewV flex N2**® series are not suitable for printing primary food 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".

## Classification

Safety Data Sheet available on request.

## Shelf life

When stored under the correct conditions (20 °C, protected against heat and light):

Inks: min. 12 months

Varnishes: min. 3 months

## How supplied

5-kg cans

Contact addresses for advice and further information can be found under [www.NewV-inks.com](http://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.