



## NewV UV inks and varnishes for food packaging Application instructions

### Printing information

- These low-migration UV inks are suitable for printing on paper and card stocks in the UV sheet-fed offset, UV letterpress and UV continuous forms processes.  
If you want to use the inks on non-absorbent substrates, such as cast-coated stocks (Chromolux), aluminium-vaporised or PE-coated papers/card and film/foil materials, always carry out adhesion and scratch-resistance tests on the print-run substrate prior to beginning production.
- Only approved printing auxiliaries are allowed to be used. Use **NewV sup Low-migration Paste Reducer 40 VP 1020** to reduce tack. Under no circumstances may conventional printing oils, additives or paste reducers be used.
- Photoinitiators and photoinitiator pastes must never be used.
- Low-migration UV inks may only be mixed with other low-migration UV inks.
- UV radiation can cause substrates to give off a strong odour or develop a strong taste. Choose appropriate substrates for UV printing.
- Rollers must not be sprayed with anti-drier or Farbfitt ink freshener.
- Check the radiation output of the UV curing units prior to beginning the print run, e.g. using a measuring instrument or test labels. These measurements must be repeated regularly during the course of a long production run.

### Dampening

- To avoid problems with emulsification and the ink/water balance, the amount of fount solution used should be kept to a minimum (as is always the case in UV printing).
- Use **MGA-COMBIFIX® 8060** or **MGA-SUBSTIFIX® 8360**
- IPA concentration:
  - MGA-COMBIFIX®: max 10%
  - MGA-SUBSTIFIX®: max. 5%
- The fount solution system must be clean. It may be necessary to change the fount solution in the system.

## Switching from conventional inks and standard UV inks to low-migration UV inks

Old inks and washup solutions left over from previous production runs and that are not low-migration must be removed from the ink rollers.

- We recommend you use **NewV sup Washup Solution 40 VP 1030** to clean the ink rollers.
- Apply **NewV sup Cleaning Paste 40 VP 1040** to the ink rollers, allow it to work for approx. 30 minutes with the press running and then wash up with **NewV sup Washup Solution 40 VP 1030**.
- Ink up and leave it in the system for approx. 5 minutes.
- Clean using the standard products and **NewV sup Washup Solution 40 VP 1030**.
- Inking rollers, dampening rollers and rubber blankets must be clean and absolutely dry. To complete washing of the rollers and blankets, we recommend you give them a final washdown with water in order to remove all residues of washup solution.

### Miscellaneous

- To prevent contamination through standard UV or conventional inks and coatings/varnishes, only ever use absolutely clean equipment and tools.
- The stacks must be stored – before and after printing – in such a way that the organoleptic characteristics suffer no negative influences and the climatic conditions are constant (preferably 22°C and 50 – 55% relative humidity).
- Migration test:  
To obtain perfect lab results from the migration test, you have to produce several thousand print sheets. The sheets produced at the start of the print trial are usually shown by the migration test to still contain residues of other non-low-migration ink constituents that are released by the ink rollers. After the print trial has been completed, print sheets (printed and unprinted material) are required for our lab tests (migration and Robinson tests). We may require further products in order to be able to more precisely classify substances found after completion of the migration test (such as fount solution additive, alcohol, fount solution etc.).

These products are experimental products. Modifications may be made to the formulation in the course of ongoing development.

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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.