



Process: UV flexoprint  
Product: Labels

## 39-8 – The Perfect UV Flexoprint Series

UV SICURA FLEX 39-8

In almost no time at all, this series has become a big seller. It is characterised by even better flow properties in comparison to its prede-



cessor, the 39-6 series, and is **exceptionally well-suited for printing on paper and thermal paper** as well as on plastic substrates. SICURA FLEX 39-8 holds out well, thus avoiding any undesirable absorption of ink by the paper.

As with the 39-6 series, the inks in the 39-8 series are also **very highly pigmented**, making them **vividly coloured**. They exhibit outstanding adhesion properties and print extremely well. They have excellent adhesion to plastic substrates, which is vital for label printers. Moreover, the series is additive-free and can therefore be combined with UV screenprint and UV offset without any problems. The inks are suitable for lacquer coating as well as embossing, and can be printed at high production speeds. ◆



### Good to Know

#### FDA approves UV Technology for Food Contact

UV technology has made an important breakthrough **in the USA** with the Food Contact Notification FCN 722. Subject to certain conditions, it has been **approved** by the Food and Drug Administration (FDA) **for direct food contact**. The approval of typical UV acrylic monomers for use in UV lacquers in food contact demonstrates that, when cured, they are significantly less toxic than had been feared. The American decision will thus help to dispel unfounded prejudice against UV inks. However, only one product from the photoinitiator group has been tested and approved so far.

**Regrettably, there are still no signs of an initiative in Europe** to obtain approval for the use of UV technology in food contact. **Therefore UV inks may still not be used in direct food contact**. The strong recommendation for the use of Siegwerk's low-migration UV series thus remains unchanged.

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## High-Quality Four-Colour Set «XXL» for UV Flexoprinting

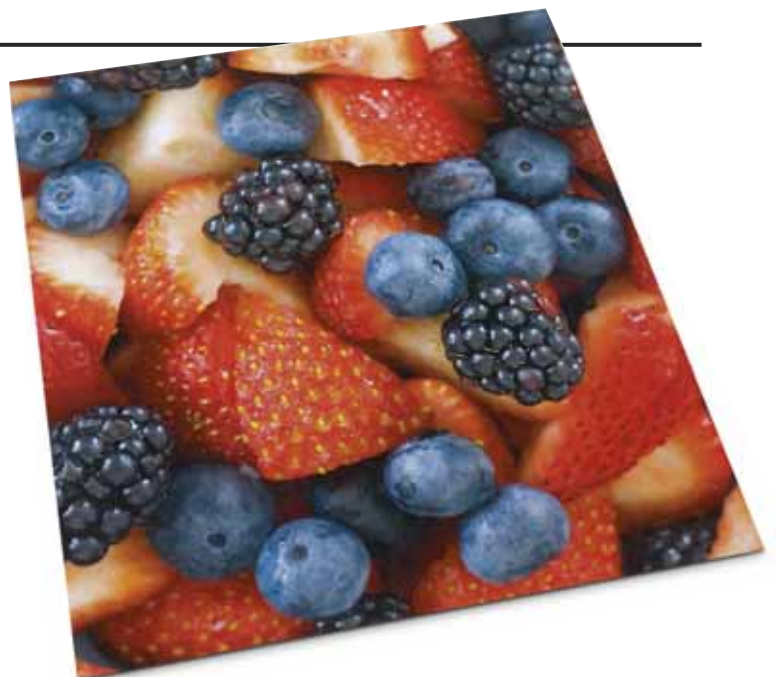
Product number: 80-900223-1 39-5 Process Black HC  
Product number: 80-110582-6 39-5 Process Cyan HC  
Product number: 80-800722-3 39-5 Process Magenta HC  
Product number: 80-300368-0 39-5 Process Yellow HC

This new 4-colour set is **very highly pigmented** and its **low viscosity** means that it **can be printed using the finest anilox screen rollers (350–500 l/cm)**. Half-tone screens of 70 l/cm are possible, providing comparable quality to that of offset printing.

To the amazement of printers, the high pigment concentration has no detrimental effect on machine speed. «You can save up to 40 % in ink use with these products», they enthuse. Despite the high pigment concentration, the **flow characteristics of these inks are outstanding**.

The series has already proved its worth in practical use; particularly in North America, where it is widely used to great success.

Try it out for yourself on your flexoprinting machine. ◆



Process: UV flexoprint  
Product: Sleeves

## Glitter Effects now also Possible for Sleeves

**Effect pigments** are available under the brand names Iriodin®, Colorstream® and Miraval®. They can be used in Siegwerk UV ink series for virtually all print processes. Surprising effects can also be obtained by adding the pigments to individual UV lacquers and printing these over coloured inks or black. The glittering world of effect pigments is now **also available for sleeves on bottles, glasses and tubs**. In collaboration with the pigment manufacturer Merck and printer



Schäfer-Etiketten, Siegwerk produced sleeves with three different effect pigments for Drupa 2008, that all met with considerable interest among visitors.

If you would like more information on effect inks for sleeve production, please consult your Siegwerk application technician. ◆

**Effect pigments** are generally manufactured from the rock-forming mineral mica, which is noted for its cleavability parallel to the layer packages. Mica reflects the incident rays of light as interference colours and is responsible for the pearlescence of inks, lacquers and cosmetics. If chemical processes are employed to apply an oxide coating to the mica flakes, various different coloured effects are obtained.

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## Opaque White with Low Abrasiveness

39-8 Opaque White 1170  
Product number: 81-010166-7

This new flexo white possesses all the excellent properties of the previous opaque white 39-6-1153, but is **more highly pigmented** and exhibits **markedly lower abrasiveness**. Thanks to this lower abrasiveness, inking system doctor blades require less frequent replacement. The high pigment level ensures outstanding hiding power. This new white is also based on titanium dioxide pigments. Titanium white has the highest opacity of all white pigments as well as excellent lightening power. It is chemically stable, non-toxic and is even encountered as a food additive under the designation E 171 (in toothpaste, for example). ◆



**Abrasiveness:** The titanium dioxide pigment used for the previous white is crystalline and relatively hard; it wears away the doctor blades on the dipping roller. A smoother type of the titanium dioxide pigment is used in this new white.

### Information

#### 4-Day Application Seminar in China

The goal of the seminar held in Shanghai at the beginning of August was to familiarise Siegwerk application technicians with combination printing and problem solving in the production of labels (additives, static electricity, substrates, etc.) so as to enable them to advise their local label producers.

22 participants from China, Malaysia, India, Thailand, Indonesia and the Philippines completed the course.



The practical training was held in the Avery Dennison Converting College in Kunshan, in which Siegwerk has been involved since 1999, and where training courses for Asian customers are organised on a regular basis.

