UV-curing CRSmax system

Metal deco inks for the UV-curing offset spot colour ink mixing system – for food packaging

The UV-curing **CRSmax** ink mixing system (Computer-Recipe-System) includes print ready base colours with high pigment concentration and individual fastness properties. Besides the colours, transparent white, opaque white and black can also be found in the assortment. The inks below are designed for conventional mercury lamp applications.

The benefits of the **CRSmax** system:

- Individual control on all the fastness properties
- Fast and safe matching of spot colour inks
- Smart opportunity to reduce left-over inks
- Gives possibility to rework the left-over inks that were mixed from UV-curing **CRSmax** base inks
- Reduction of ink stock from uncountable spot colours to a few base colours

Properties

- Good adhesion on non – absorbent substrates
- High colour intensity
- High Gloss
- ITX – free
- Rapid adjustment of a stable ink / water balance
- Draw ability
- Sterilization ability

Substrates

The **NewV tin** printing inks are suitable for:

- White-coated tin plate
- Transparent primed tin plate

Applications

We recommend the application of UV varnish in order to provide effective protection for the printed image (see Technical information about “NewV lac for UV curing”).

The adhesion of UV curing inks and varnishes pre-treated metal surfaces may be negatively influenced by separating agents, lubricants or plasticisers adhering to these surfaces. We recommend not printing on metal surfaces that are not pre-treated due to unfavourable adhesion characteristics between UV ink/varnish films and the substrate surface.

The good resistance result of the adhesive (Scotch) tape test does not necessarily imply good scratch resistance (nail test). In such cases the application of a UV curing varnish can help to improve the scratch resistance. Due to the differences between wide ranges of substrates mentioned above, we recommend you to carry out tests before you start the commercial print run.

For more information, please see our Technical Information “NewV UV-curing inks and varnishes”.

Basic colours – metal deco

Colour	Sales code	Heat resistance 10min @ 210°C	Sterilization	Light fastness (WS)	Spirit	Solvent mixture	Alkali
Yellow	41UT7805M	+	+	7	+	+	+
Yellow greenish	41UT7871M	+	+	6	+	+	+
Yellow reddish	41UT7872M	+	+	6	+	+	-
Orange reddish	41UT7873M	+	+	6	+	+	+
Warm Red	42UT7875M	+	+	6	+	+	+
Red bluish	42UT7829M	+	+	6	+	+	+
Rhodamine Red	42UT7812M	+	+	7	+	+	+
Violet	43UT7826M	+	+	7	+	+	+
Process Blue	43UT7820M	+	+	8	+	+	+
Green	44UT7822M	+	+	8	+	+	+
Mixing Black	49UT7800M	+	+	8	+	+	+
Mixing white opaque	40UT7850M	+	+		+	+	+
Transparent white	47UT7840M	+	+	8	+	+	+

+ yes – no /= conditionally recommended na. not applicable

Spot colours inks from the traditional communication systems can easily be matched and produced with the appropriate equipment and necessary know-how, using the mixing system CRS^{max}.

Food and confectionery packaging

Regulation (EC) No 1935/2004 requires that the materials and articles which, in their *finished* state, are intended to be brought into contact with foodstuffs or which are brought into contact with foodstuffs, must not transfer any components to the packed foodstuff in quantities which could endanger human health, or bring about an unacceptable change in the composition or deterioration in organoleptic properties.

Provided that our products cited above are used in accordance with the information given in our technical information sheets and correctly processed and cured, and provided that the food packaging is designed in a way that there is no intended food contact with the print, we hereby confirm that our products will in principle allow compliance of the final product with Regulation (EC) No. 1935/2004.

- The **huber**group products cited above are formulated and manufactured in compliance with the EuPIA "Good Manufacturing Practices (GMP) – Printing Inks for Food Contact Materials" published by EuPIA, the European Printing Ink Association.
- To prevent any contamination with components from conventional inks, the NewV MGA products are manufactured in a separate production area specifically designated for this purpose.
- The products are compliant with section 8b (“packaging inks”) of the Swiss Ordinance 817.023.21 (Verordnung des EDI über Bedarfsgegenstände vom 23. November 2005.”).

The manufacturer (printer, converter) of the packaging and the filler who puts the foodstuff into the packaging have the legal responsibility to verify that the finished product fulfils the legal and industrial requirements.

To allow other members of the packaging chain to assess compliance of the printed packaging with the Framework Regulation (EC) No.1935/2004, the Plastics Regulation (EU) No. 10/2011 and/or the Swiss Ordinance 817.023.21, the “Statement of Composition” (SoC) is available on request. Please note that

when carrying out a risk assessment, paper, board and many plastic materials, like PE or PP are not sufficient barriers for migratable substances from UV curing inks and varnishes.

More information on the subject of packaging for food, cosmetics, pharmaceutical products and tobacco can be found in the information sheet *50.G.002 NewV MGA products _UV inks and varnishes for food packaging.* Please also find information on the webpage of the European Printing Ink Association: www.eupia.org.

Classification

Safety data sheet is available on request.

Shelf life

The minimum shelf life of these products is 12 months from the production date if the container is not opened. But dependent on the storing and handling conditions, they can be usable much longer. For extending the warranty period, please contact our sales representatives.

Further information: 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 can