

# Technical Information

50.P.011 | Radiation-curing Systems | Ink Series, Process Inks



## NewV<sup>®</sup> tin

UV-curing inks for metal decor offset printing

NewV tin series is for printing on tin plate. They are suitable for UV sheet-fed offset and for mercury lamp applications.

Name of process colour	Sales code	Fastness properties according to ISO 12040 / ISO 2836				
		Light WS	Sterilization	Alcohol	Solvent mixture	Alkali
Yellow	41UT4001	7	+	+	+	+
Magenta	42UT4001	6-7	+	+	+	+
Cyan	43UT4000	8	+	+	+	+
Black	49UT4000	8	+	+	+	+
Dense Black	49UT4010	8	+	+	+	+
Yellow	41UT4000	5	-	+	+	+
Magenta	42UT4000	5	-	+	+	-

### Properties

- Good adhesion on non – absorbent substrates
- Sterilization ability
- Heat resistant
- High colour intensity
- High Gloss
- ITX – free
- Rapid adjustment of a stable ink / water balance
- Colour shades in accordance with ISO 2846-1 and ISO 12647-2
- Draw ability

### Substrates

The NewV tin printing series 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”.

### **Printing auxiliaries**

The **NewV** tin printing inks are ready to use products. In case small adjustments are needed for special requirements, please find the recommended additives in our technical information sheet: *50A001 NewV sup\_Auxiliaries for radiation-curing offset printing*.

### **Food and confectionery packaging**

The products listed above are not suitable for printing primary food packaging or secondary packaging where the primary layer is not a barrier against migration of substances from the printed layer to the packed product. More information on the subject of packaging for food, cosmetics, pharmaceutical products, tobacco can be found in the information sheet *50.G.002 NewV for food packaging*. Please also find information on the webpage of the European Printing Ink Association: [www.eupia.org](http://www.eupia.org).

### **Shelf life**

The minimum shelf life of these products is 18 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 cans