



NewV® tin Opaque White

UV curing ink for sheet-fed offset metal décor printing

Among all the available colouring agents (pigments, dyes), titanium dioxide is the white pigment that offers very good coverage properties (opacity) and provides a high degree of whiteness. By this reason the opaque white inks contain high concentration of this pigment.

You can use opaque white in coloured printing inks to give them an opaque appearance or for direct printing of substrates in order to mask them. **NewV tin Opaque White** listed below are suitable for letterpress and offset printing.

NewV tin Opaque White is developed to decrease the possibility of the swelling problems of nitrile based and EPDM rubber rollers and blankets.

Properties

- Optimized for NBR and EPDM rollers
- Performed for high speed machines
- Very good adhesion
- Fast curing, high reactivity
- Low smell
- Good flow in the duct
- High density
- High brilliance
- Very good opacity
- Good printability, good Ink/water stability
- Low yellowing properties
- ITX free, BP derivatfree

Standard mercury lamp applications

We recommend **NewV tin Opaque White** the for **non-absorbent** substrates and recommended for all presses in market.

Name	Sales code	Fastness properties according to ISO 12040 / ISO 2836				Tack
		Light WS	Alcohol	Solvent mixture	Alkali	
NewV tin Opaque White untoned	47UT0001	8	+	+	+	15-18
NewV tin Opaque White toned	47UT0002	7	+	+	+	15-18

Substrates

- The NewV tin MGA printing series are suitable for:
 - White-coated tin plate
 - Transparent primed tin plate

Applications

Recommended roller covering and rubber blanket:

NewV tin Opaque White for NBR, EPDM

Due to the limited thickness of the ink film in the offset process and the colour of the surface, different results are obtained on different substrates (e.g. grey board, brown board, aluminium vaporised paper).

High quantities of opaque white can slow down the UV curing process.

To obtain a good white shade after one pass, 2.0 – 2.5 g/m² ink application rate of is required.

The adhesion of UV-curing inks and varnishes to plastic films, cast-coated stocks and pre-treated metal surfaces may be negatively affected by separating agents, slip agents and plasticisers adhering to these surfaces (especially plastic films). Their lubricant and plasticizer components have a tendency to migrate to the surface of the substrate and step into chemical reaction with the substances of the ink/varnish layer.

We advise not to print on metal and plastic surfaces that are not pre-treated due to unfavourable adhesion characteristics between UV ink / varnish films and the substrate surface.

When changing over to printing with opaque white, the ink rollers must be cleaned very thoroughly in order to avoid contamination of the white with other colours. If possible ink up the rollers with opaque white and scrape them off several times.

UV inks and varnishes needs to have a good tape (Scotch, Tesa) resistance in order to ensure trouble-free further processing. But the good result tape test does not consequently mean good scratch resistance (nail test) as well. Overcoating the ink layer with UV varnish that contains lubricants can improve scratch resistance. However, the adhesion to a substrate cannot be improved this way, it can be the result.

Please find our Technical Information sheets about UV curing ink and varnishes on our website.

Due to the quality differences in the substrates on the market, we recommend you to carry out tests before starting the commercial print run.

Auxiliaries

The **NewV tin Opaque White** ink is ready to use products. In case small adjustments are needed for special requirements, please find the recommended additives in our technical information sheet: *50.A.001 NewV sup_Auxiliaries for UV 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.

Shelf life

18 months from the delivery date if the container is not opened. 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 (3kg ink)