



## Technical Information

### Frimpeks UV Curable Offset Inks

A newly developed ink series ink for sheet-fed offset, rotary and narrow web offset printing on absorbent and non-absorbent substrates

#### Product Range:

Process inks (process and extra series), base colors, PANTONE® inks are available. Special hues are available on request.

#### Technical Details:

- good adhesion
- solvent free
- fast curing (high reactivity)
- very good runnability
- do not contain benzophenone derivatives
- suitable for inline and/or offline coating, foil stamping, and lamination

#### Remark:

Before beginning to print we recommend pretests in order to test the desired characteristics of the finished product.

#### Printing Details:

Dosage must be adjusted according to the desired printing speeds if web offset printing is considered. Good adhesion on filmic substrates is achieved on the substrate having appropriate (40dynes/cm) corona treatment.

#### Applications

- luxury packaging such as liquor, cosmetic boxes
- paper self-adhesive labels
- no direct food contact packaging where low-migration properties are needed
- outer wrap packaging for food being protected by a barrier primary packaging

#### Packaging:

Standard Packaging: 2.5 KG buckets

#### Technical Service:

Kindly note that we are ready at any time for competent technical application support on your site.

Please contact our technical staff for printing inks:

[uv@frimpeks.com](mailto:uv@frimpeks.com)

#### Storage:

##### Optimal Storage Conditions

The optimal storage temperature is between 5°C to 25°C.

Higher storage temperatures reduce the shelf-life.

#### Remark:

- protect from frost
- store in a cool and dark place
- stir well before use
- the lid must be closed immediately after usage

#### Warranty:

If the inks are stored correctly, we guarantee a shelf life of 12 months from date of production.

However, we know from practical experience that the inks can remain usable for longer periods if they are properly handled and stored.

#### Cleaning:

We recommend using typical wash-up solutions.

The inking roller, anilox roller and printing plate have to be resistant against UV based inks and detergents (see manufacturer's instructions).

#### Disclaimer:

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This edition of December 12, 2019 replaces all previous editions. With the present edition all older editions are null and void.

Frimpeks Kimya ve Etiket Sanayi Ticaret A.S.

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		<b>Lightfastness</b>	<b>Alkali</b>	<b>Solvent</b>
<b>Type</b>	<b>Product Denomination</b>	<b>According to ISO 105 B01 specification</b>	<b>According to ISO 2838 specification</b>	<b>According to ISO 2837 specification</b>
		<b>1 to 8 blue scale 8-Excellent / 1-Poor</b>	<b>1 to 5 5-Excellent / 1-Poor</b>	<b>1 to 5 5-Excellent / 1-Poor</b>
Process Color	Pr. Yellow	4/5	5	4/5
Process Color	Pr. Magenta	4/5	2	3
Process Color	Pr. Cyan	7	5	5
Process Color	Pr. Black	7	5	5
Process Color	Extra Yellow	4/5	5	4/5
Process Color	Extra Magenta	4/5	2	3
Process Color	Extra Cyan	7	5	5
Process Color	Extra Black	7	5	5
Base Color	Yellow	4/5	5	4/5
Base Color	Yellow LF	6	5	4
Base Color	Orange	5	5	4
Base Color	Warm red	2	2	4
Base Color	Mid red (032)	5	5	3/4
Base Color	Rubine Red	4/5	2	3
Base Color	Rubine Red LF	6/7	5	5
Base Color	Rhodamine red	3/4	2	2
Base Color	Rhodamine red LF	7	5	5
Base Color	Purple	4	2	2
Base Color	Violet	4	2	2
Base Color	Violet LF	7	5	5
Base Color	Reflex blue LF	7	5	5
Base Color	Blue	7	5	5
Base Color	Green	7	5	5
Base Color	Mixing Black	8	5	5
	Transparent White			
	Opaque White	8	5	5

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# Frimpeks UV Curable Offset Inks

### Marking:

#### Marking according to EU legislations:

Our inks are fully adhering to regulations such as Reach, 1272/2008 CLP, 453/2010 EU, ROHS 2002/95/EU, and/or 528/2012 EU regulations.  
All material safety data sheets (MSDS) are available on request.

### Declaration of Composition and Product Declaration:

#### CEPE / EuPIA – Exclusion List

CEPE is the European Council of producers and importers of paints, printing inks and artists colours whereas EuPIA is the European Printing Ink Group of CEPE. The printing ink industry voluntarily came up with the Exclusion List for specific substances many years ago. The raw materials used by Frimpeks for the formulation of our printing inks/varnishes meet the guidelines of the CEPE / EuPIA Exclusion.

#### Heavy Metals

CONEG stands for Coalition of North-Eastern Governors in the USA. One of their legislations, adopted by 18 states as of 1998, requires reductions in the amount of the four heavy metals mercury, lead, cadmium, and hexavalent chromium in packaging and packaging components sold or distributed in their member states. For Frimpeks printing inks/varnishes the limits for heavy metals as listed in the CONEG-Regulation (USA) are met. The Euro Norm 71.3 refers to the max level of heavy metals in children's toys. For Frimpeks printing inks/varnishes, the limits for heavy metals as listed in the DIN EN 71-3 are met.

Heavy metals are no part of our formulations.

#### Hazardous substances

Substances mentioned in the directive 2002/95/EC (RoHS) are not intentionally used in our formulations printing inks/lacquers.

#### SVHC-substances (substances of very high concern):

In our products no substances are used which meet the criteria of SVHC-substances (substances of very high concern). SVHC-substances are substances which are classified as CMR 1 & 2, PBT (PBT pollutants are chemicals that are toxic, persist in the environment and bioaccumulate in food chains), vPvB (Substances that are potentially very persistent and very bioaccumulative) and endocrine disruptors (artificial hormones).

The substances listed in the guide line 67/548/EEC (amended by the directive 2006/121/EC) and in the guide line 76/769/EEC are not part of the formulation of our printing inks/lacquers. Furthermore, we confirm that our printing inks/lacquers are in accordance with the EC regulation 1895/2005 (repeals the guide line 2002/16/EC).

### Quality Assurance:

#### ISO 9001

The production site of Frimpeks is certified according to DIN EN ISO 9001:2008 and DIN EN ISO 14001:2005 (corresponds to EN ISO 14001 edition 2009).

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