Frimpeks®

Frimpeks UV Curable Low Migration Flexo Inks (25000 Series)

Our newly developed ink series for flexible packaging, and self adhesive labels where low migration is needed.

Consumer's care and safety are one of our first target and for this reason food should not be contaminated by any external substance. Within this frame we keep in mind that all the components of our inks must not migrate inside food-packaging. Our low migration ink series have all law requirements to be used in printing for non-food contact surface.

Migration could happen in three different ways:
1) Direct migration
2) Set-off migration due to paper stacking
3) Gaseous migration

Framework Regulation (EC) No 1935/2004 related to materials and articles intended to come into contact with foodstuffs provides the basis for the assurance of a high level of protection of human health and of consumers' interests in relation to food packaging, whether printed or not. The manufacturer of the final packaging has the responsibility for the compliance of the material and article with the legal requirements laid down in Article 3: Materials and articles must be manufactured in compliance with good manufacturing practice so that, under their normal or foreseeable conditions of use, they do not transfer their constituents to foodstuffs in quantities which could:

a) endanger human health
b) bring about an unacceptable change in the composition of the food
c) bring about a deterioration in the organoleptic characteristics thereof

Technical Details:

- low migration and low odor - solvent free
- fast curing
- very good runnability
- suitable for varnishing and hot foil stamping
- suitable for PE, top coated PE & PP, PP, BOPP, treated PET (based on lab results and practical applications, preliminary tests must be conducted)
- good adhesion on a wide range of synthetic materials such as paper and cartonboard
(for synthetic materials a surface tension of 38-42 dyne/cm is requied to obtain optimum adhesion)

Printing Detalis:

Printing Speed: Up to 150m/min

Anilox Volume:

Process Colors	3-4 cm^3/m^2 (1.9-2.5 BCM)
Solid Colors	5-10 cm^3/m^2 (3.5-6 BCM)

Remark:
Before beginning to print we recommend pre-tests, in order to test the desired characteristics of the finished product

Product Range:

Process inks, opaque white, base colors, Pantone® inks are available

Packaging:

Standard Packaging: 5KG 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**

Cleaning:

We recommend using cleaning products dedicated for Low Migration application.
The inking roller, anilox roller and printing plate have to be resistant against UV based inks and detergents (see manufacturer's instructions).

Storage:

Optimal Storage Conditions:
The optimal storage temperature is between 5°C to 25°C. Higher storage temperatures reduce the shelf-life.

Remarks:
- 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.

Frimpeks Kimya ve Etiket Sanayi Ticaret A.S.
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		Lightfastness	Alkali	Solvent
Type	**Product Denomination**	**According to ISO 105 B01 specification**	**According to ISO 2838 specification**	**According to ISO 2837 specification**
		1 to 8 blue scale 8-Excellent / 1-Poor	1 to 5 5-Excellent / 1-Poor	1 to 5 5-Excellent / 1-Poor
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
Base Color	Yellow	4/5	5	4/5
Base Color	Yellow LF	6	5	4
Base Color	Orange	5	5	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	Purple	4	2	2
Base Color	Violet	4	2	2
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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Marking:

Marking according to EU legislations:
Our inks are fully adhering to regulations such as Reach, 1272/2008 CLP, 453/2010 EU,
ROHS III Directive 2015/863, 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 71-3:2019 are met.
Heavy metals are no part of our formulations.

Hazardous Substances
Substances mentioned in the Directive 2015/863 known as RoHS III 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).

Enhanced Statement of composition (ESoC) is available on request to support with migration testing and compliance with Plastics Regulation (EU) No 10/2011, the Swiss Ordinance 817.023.21 Annex 1 or 6 or listed on the 'Provisional List of Additives used in Plastics' or listed as a food additive in Regulation (EC) No 1333/2008 and Regulation (EC) 1334/2008.

Quality Assurance:

ISO 9001
The production site of Frimpeks is certified according to DIN EN ISO 9001:2015 and DIN EN ISO 14001:2005 (corresponds to EN ISO 14001 edition 2009).

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