

Technical Information

Frimpeks Waterbased Varnishes

102668 WATER BASED IML VARNISH 51600

Product Information:

102668 is designed for the in line-coating on sheet-fed offset presses; specifically for the production of low-odour primary food packaging, in combination with IML printing inks.

Typical End Use

Packaging

Typical Properties

Fast curing, Excellent wet-blocking and rub resistance, Perfect stackability, High resistance to light (non yellowing), Low VOC, non-flammable, transparent after application. The product can be processed immediately.

At a Glance

Gluable/Imprintable	No
Flexibility	Very Good
Mechanical Resistance	Good
Suitable for In-Line	Yes
Can be Applied via Pump	Yes
Suitable for Primary Food Contact	Yes

Technical Data

Viscosity @ 22°C Ford Cup	40 – 50 sec	Liquid Appearance	White
pH	8.0 – 8.5	Odor	Low
Solid Content (130°C /3h)	42 – 45 %	Gloss	60+ at 60° Reflection

Recommended Application

This coating is designed to be applied through the varnishing unit of an offset press.

To get the optimal gloss the recommended application is app 4-6 Gr/m² wet

Processing

Please make your own tests, for the needed specific demands, before extended production periods.

Equipment and Drying

Depends on the efficiency of the dryer, the quantity of coating applied and the substrate

Cleaning

Appliance and other equipment can be cleaned with water after use.

Shelf Life and Storage Conditions

Water based varnish cans and drums must be store tightly closed where in door conditions are protected from continuous sun light and temperatures higher than 35°C (higher can cause blocking).
NORMAL STRORAGE DURATION: 6 months

Safety

During handling and use the user should avoid inhalation of vapors as well as direct eye or skin contact. Protective eyewear and latex gloves are recommended while using this product. Consult the SDS for additional handling and safety information.

Packaging

This product is available in:
200 Kg Drums
1000 Kg IBC

Transportation

Not dangerous goods. Cannot be transported in freezing temperatures but product should be brought to room temperature prior to use.

Disclaimer:

The statements listed on this publication are according to our best knowledge. The statements do not exonerate the user from their own responsibility to determine that our products are suitable for their processes. They are intended to inform and advise and are subject to influence from the technical process.
This edition of August 20, 2021 replaces all previous editions. With the present edition all older editions are null and void.

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Technical Information

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 and coating 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

Marking:

Marking according to EU legislations:

Our products 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):

No substances are used in our products 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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