



Gecko[®] Platinum (Microlam NT NK)

PU based universal lamination ink for gravure printing

Description

A universal lamination ink supplied as finished product. Gecko Platinum ink series offers the best possible bond strength level for a large range of packaging substrates. In combination with suitable lamination adhesives, it can be used for high temperature applications such as steam sterilisation.

Applications

Suitable for typical reverse printed lamination applications when gravure printing on films such as OPP, chem PET, OPA and corona treated PET. Produces superior bond strength values for a variety of packaging laminates.

Note: Gecko Platinum inks must not be contaminated or mixed with other ink series.

Print Process

Rotogravure

Properties

Ink adhesion	4 – 5
Lamination	Bond usually lamination bond strength of > 3N/15mm can be achieved. Exact values are dependent on substrate quality as well as adhesive type and film weight applied. The lamination bond strength is expected to remain stable after sterilization processes.

Rating scale (1 to 5 based on Gecko product range) 1 = worst value, 5 = best value
All technical properties are a guideline only and dependant on final application

Substrates: Coex OPP, Chem PET, Corona PET*, BOPA, PET SiOx

Secondary Web: Coex OPP, CPP, Alu/PE, PE, Metallic Films

* It is highly recommended to work with corona PET qualities having a surface tension of 44-52 mN/m.

Print viscosity

Dilution	Gravure 23 - 28 s DIN 3
Fast	Ethyl Acetate
Standard	Ethyl acetate /n-Propyl acetate/Isopropanol 2:2:1
Slow	n-Propyl acetate / n-Propanol 1:1 (For very fine vignette area)
Retarder	Methoxy propanol

Instructions for the use of printing inks for the production of primary food packaging

For information on the use of printing inks for the manufacture of food packaging please refer to the respective „**Statement of Composition**". This information is provided to allow the calculation of possible levels of migration of evaluated substances in a worst case situation.

Migration tests at hubergroup laboratories with printed samples made from commercially available OPP film (film thickness: 35 µ, printed weight: 6 g/m², with 95 % ethanol as the food simulant) and PE film (film thickness: 50 µ, printed weight: 6 g/m², with 95 % ethanol as the food simulant) showed no migration of substances above legal limits. Based on the results of these migration tests, we expect that the printed inks enable the final printed products to comply with the legal requirements for packaging for all kinds of foodstuff.

The manufacturer of the finished article and the filler have the legal responsibility to prove by appropriate migration testing that it is fit for its intended purpose.

In order to maintain low residual solvents concentration in the printed film, the printer must ensure sufficient drying of the inks, especially when retarders have been added. Residual solvent content must be regularly monitored.

The inks must not be used in the manufacture of packaging where the printed ink layer is intended to come into contact with foodstuff (direct food contact).

There are restrictions for the use of printing inks for applications where temperatures above 120 °C for extended periods of time are applied. For details, please see document "Food Packaging Inks for High Temperature Applications".

Health & Safety

The material safety data sheets contain all relevant information for the generation of appropriate internal plant instructions. The user is responsible for all local legislation requirements.

Ink Handling

Please refer to General Guidelines for handling inks for flexible packaging.

Contact addresses for advice and further information can be found under www.hubergroup.com
This Technical information sheet reflects the current state of our knowledge. It is designed to inform and advise. We assume no liability for correctness. Modifications may be made in the interest of technical improvement.