



Gecko[®] Platinum Roto

Solvent based printing inks for flexible packaging
Lamination Printing

Description

A plurisolvent, monomeric plasticizer-free, PU-based universal lamination ink series for gravure printing, supplied as finished product. Gecko Platinum ink series offers the best possible bond strength level for a large range of packaging substrates. It can be used for high temperature applications such as steam sterilization, selecting suitable pigments. The series provides good colour strength, high print quality and low solvent retention.

Printing Process

Gravure printing.

Applications

Lamination Reverse Printing.

Suitable for food and beverage flexible packaging.

Substrates: Coex OPP, chem PET, Corona PET, BOPA, PET-SiO_x

Minimum surface tension: Coex OPP: 38 mN/m. BOPA: 48 mN/m.
Corona PET: 52 mN/m (mN/m = dynes/cm).

Properties

Adhesion	4 – 5
Lamination bond	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

Note: All technical properties are a guideline only and depend on pigment choice and final application. For details about exact test methods which are the basis for info about fastness properties given above please refer to the general test method overview.

Note

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

Printing viscosity

Diluents		Gravure Printing 13 – 14 s DIN 4	%
Slow		n-Propanol/n-Propylacetate	50:50
Standard		Ethylacetate/n-Propylacetate/Ethanol	40:40:20
Retarder		Methoxypropanol/Ethoxypropanol	

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

For information on the use of printing inks, varnishes and additives 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 wet ink: 6 g/m², with 95 % ethanol as the food simulant) and PE film (film thickness: 50 µ, printed wet ink: 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 product, especially when retarders have been added. Residual solvent content must be regularly monitored.

The products 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).

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.

Storage Conditions

Store the material in the original packaging at a temperature not below 5°C and not in direct contact with sunlight.

Contact addresses for advice and further information can be found under www.hubergroup.com

Due to the many variables in materias for printing, design construction, processing conditions and test criteria, this Technical Data Sheet can only be of an advisory nature. Our data reflect the latest state of our knowledge and are based on the characteristics established in the laboratory and on practical experience. Because there are many factors under the control of the user which may affect processing or application/use, it is necessary for the user to carry out appropriate tests to determine whether the product(s) is technically and safely suitable for the particular purpose, prior to use. **hubergroup** disclaims any liability for applications for which this ink series is not foreseen. No warranties of any kind, either expressed or implied, are made regarding the products here described. The English version is the master document, on which to refer for any translations.