



Gecko® Xtreme White

Solvent based printing inks for flexible packaging

Universal lamination white

77GW289635



Description

A universal lamination white supplied as finished product for use in combination with Gecko® Bond Top and Gecko® Bond Star ink series. Gecko® Xtreme White offers the best possible bond strength level and extends application range of Gecko® Bond ink series to all typical substrates.

Applications

Suitable for all typical reverse printed lamination applications when printing on films of the range OPP, PET chem., BOPA and corona-treated PET. Produces in all cases superior bond strength values compared to standard Top and Star lamination whites.

Gecko® Bond Top: To be used in combination with Gecko® Bond Top when printed film is PET chem. When printing on polyolefines (such as OPP or PE) normal Gecko® Bond Top White gives sufficient bond strength (>2,0 N/15mm) but Xtreme White raises the overall bond strength level.

Gecko® Bond Star: When printing on BOPA or PET corona the use of Xtreme White is recommended.

Note: Xtreme White must not be contaminated or mixed with other ink series.

Print process

Reverse print Flexographic and Rotogravure for lamination.

Properties

Ink adhesion	4-5
Lamination bond	Usually lamination bond strength of > 3.0 N/15 mm can be achieved. Exact values are dependent on substrate quality as well as adhesive type and film weight applied.

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 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.

Substrates: Coex OPP, Acrylic OPP, PET chem., PET corona*, BOPA

Secondary Web: Coex OPP, PE, PET chem., Alu/PE, metalized films

* It is highly recommended to work with PET corona qualities having a surface tension of at least 52 dyn.

Print Viscosity

Diluents	Flexographic	Gravure
	20 - 25 s DIN 4	15 - 20 s DIN 4
Slow	N-Propanol/N-Propyl Acetate 9:1	N-Propanol/n-Propyl Acetate 3:1
Standard	Ethanol/Ethyl Acetate 9:1	Ethanol/Ethyl Acetate 3:1
Retarder	Ethoxy Propanol	Ethoxy Propanol

Auxiliaries

Additives Gecko® Xtreme White gives good adhesion on all films. In some cases (such as poorly treated OPP) initial adhesion may not be fully given, but will be reached after a few hours. Addition of adhesion promoter is therefore not necessary. Addition of any other additive types should be avoided.

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.de

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.