



Gecko® Primer for Metalized Films

Solvent based printing inks for flexible packaging

70GX393214

Description

A monosolvent vinyl-based primer offering improved printability and adhesion on metalised films. This primer could be used both as a single component or as a two-component system. The addition of the appropriate catalyst improves the water and mechanical resistance.

Printing process

Gravure and Flexographic printing. This product can only be used for flexographic printing when rubber or ethyl acetate resistant photopolymer printing plates are used.

Applications

Surface printing.

Suitable for food and beverage flexible packaging, printed on the metallized side of the film.

This product must be printed in register and immediately overprinted in order to avoid blocking problems on the rolls.

Suggested quantity to be applied (dry solids) 0,7 – 1,0 g/m².

Substrates: Metalized films of PE, BOPP, coex OPP, PET. Aluminum foil

Hardener Hardener fo 2 K systems (70GH132871)

Curing conditions This product could be used in combination with our 70GH132871 hardener for 2K systems. Catalysis ratio: 100 parts of primer, 5 to 10 parts of hardener (T > 10°C). The catalysis ratio can vary between 5 to 10 parts of hardener depending on the quality of the substrates.
The primer becomes tacky-free with the usual timing of the printing process. The below mentioned fastness properties are normally achieved after 4 days at room temperature.

Properties

Dry content primer	16% ± 2	Dry content hardener (132871)	47% ± 2
Adhesion		Water resistance	
■ = positive rating point on a scale from zero to max. ten points for highest value / best suitability			
All other properties depend on the ink and lacquer products used.			

Note: All properties are a guideline only and must always be tested on the specific application. In any case, it must be preliminarily performed an adhesion test for the system "primer + inks" on the chosen film, given the wide variety of materials available on the market and the various time-frame between the production process and the use.

Printing viscosity

Diluents	Flexographic printing 20 – 25 s DIN 4	Gravure printing 13 – 15 s DIN 4
Slow		Ethyl Acetate /n-PropylAcetate 80:20
Standard	Ethyl Acetate 100%	Ethyl Acetate 100%
Fast		
Retarder	Methoxy Propyl Acetate 5 % max.	Methoxy Propyl Acetate 2 % max.

Auxiliaries

Additives In general use of additives is not needed.

Notes

Diluents All solvents and equipment must be water and alcohol free in order to prevent non-curing of the 2 component reaction.

Mixing This product must be premixed with the hardener prior to dilution. After the preparation, this 2 component primer may be used for up to 24 hours.

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.

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(s), especially when retarders have been added. Residual solvent content must be regularly monitored.

The product(s) must not be used in the manufacture of packaging where the printed 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, varnishes and add 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 materials 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.