



## Gecko®

### 2 Component Matt Lacquer

Solvent based printing inks for flexible packaging  
70GL281401



#### Description

An acetate based 2 component matt lacquer for a wide range of applications, offering low odour and solvent retention. Product also offers excellent mechanical, product and chemical resistance.

#### Applications

Flexible packaging for food, bottle labels, carrier bags and beverage products printed on polyethylene, nylon, chemically treated polyester and polypropylene films.

#### Print process

Surface print Flexographic and Rotogravure.

#### Properties

|                 |        |                          |           |
|-----------------|--------|--------------------------|-----------|
| Ink adhesion    | 5      | Water resistance         | 5         |
| Rub resistance  | 5      | Deep freeze resistance   | 5         |
| Anti-scratch    | 5      | Vegetable oil resistance | 5         |
| Heat resistance | 200 °C | C.O.F. (dynamic)         | 0.25-0.35 |
| Gloss           | Matt   | Light fastness (BWS)     | -         |

**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 dependant on final application.

Substrates: PE, Coex OPP, CPP, Acrylic OPP, chem PET, BOPA

#### Print viscosity

| Diluents | Flexographic           |          | Gravure                |          |
|----------|------------------------|----------|------------------------|----------|
|          | 15-20 s DIN 4          |          | 15-20 s DIN 4          |          |
| Slow     | n-Propyl Acetate       | 100 %    | n-Propyl Acetate       | 100 %    |
| Standard | Ethyl Acetate          | 100 %    | Ethyl Acetate          | 100 %    |
| Fast     |                        |          |                        |          |
| Retarder | Methoxy Propyl Acetate | 5 % max. | Methoxy Propyl Acetate | 3 % max. |

#### Notes

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

**Printing** This lacquer can only be used for flexographic printing when rubber or ethyl acetate resistant photopolymer printing plates are used.

**Cross-linker** This product can only be used in combination with the hardener 70GH132871, mixed in the ratio of 100 parts lacquer : 25 parts hardener. The printed lacquer is fully cured after 5 - 7 days (Temperature about 20 °C).

**Mixiing** This product must be pre-mixed with the cross-linker prior to dilution. Following preparation, this 2 component lacquer 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 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/m<sup>2</sup>, with ethanol as the food simulant) and PE film (50 µ, printed weight 6 g/m<sup>2</sup>, with 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

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Contact addresses for advice and further information can be found under [www.hubergroup.de](http://www.hubergroup.de)

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