



## Gecko® Frontal Basic White

Solvent based printing inks for flexible packaging  
77GW325728

### Description

A single component, plurisolvant, NC-Based white offering excellent adhesion on polyolefin films.

### Printing Process

Flexographic and gravure printing.

### Applications

Surface printing.

Suitable for food and beverage flexible packaging.

**Substrates:** Paper, NC-coated aluminium, LDPE, HDPE, Coex OPP,

**Minimum surface tension:** LDPE, HDPE, Coex OPP: 38 mN/M (mN/m = dynes/cm)

### Properties

Ink adhesion	■■■■■■■■■■	Water resistance	■■■■■■■■■□
Rub resistance	■■■■■■■■■□	Deep freeze resistance	■■■■■■■■■□
Anti-scratch	■■■■■■■■■□	Vegetable oil resistance	■■■■■■■■■□
Heat-resistance	160° C - 180° C	C.O.F. (dynamic)	0.25 – 0.35
Gloss	■■■■■■■■■□	Light fastness (BWS)	3 - 7

■ = positive rating point on a scale from zero to max. Ten points for highest value / best suitability

**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.

### Auxiliaries

**Additives:** For specific property changes, please contact your local technical service.

**Note** For critical applications it is highly recommended to test adhesion properties on the specific substrate prior to print production.

## Print viscosity

Diluents	Flexographic 20 – 25 s DIN 4		Gravure 13 – 15 s DIN 4	
Slow	n-Propanol/n-Propyl Acetate	90:10 to 50:50	Ethanol/n-Propyl Acetate	50:50 to 75:25
Standard	Ethanol/Ethyl Acetate	90:10 to 70:30	Ethanol/Ethyl Acetate	50:50 to 30:70
Fast			Ethyl Acetate	100
Retarder	Ethoxy Propanol		Ethoxy Propanol	

## 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 **huber**group laboratories with printed samples made from commercially available OPP film (film thickness: 35 u, printed wet ink: 6 g/m<sup>2</sup>, with 95 % ethanol as the food simulant) and PE film (film thickness: 50 u, printed wet ink: 6 g/m<sup>2</sup>, 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).

There are restrictions for the use of printing inks for applications where temperatures above 100 °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.

## **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](http://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.