



Gecko[®] Base

Solvent based printing inks for flexible packaging

High-intensity pigment concentrates



Description

A wide range of NC-based pigment concentrates suited for mixing all Gecko ink series in combination with Gecko system additives. Gecko Base is ideal for use in In-House mixing stations.

Applications

Gecko Base is designed to formulate inks complying with nearly any market requirement possible in terms of fastness properties and pigmentation level. It is a central part of the modular and highly versatile Gecko system which gives you the flexibility to respond on a case by case basis to specific requirements of your customer.

Food packaging

For instructions for the use of printing inks for the production of primary food packaging please refer to the Technical information of the respective ink series.

Print Process

Flexographic and Rotogravure.

Properties

Gecko Base is composed of a large range of colour indices. For the whole list of pigment concentrates please see the table on page 2 of this technical information. The four process colours are available in a normal version (ethanol based) and in retarded version (ethoxypropanol based). The same is available for a high fastness Magenta (P.R. 184). In general, most applications can be covered with the products listed under „Standard concentrates“.

Formulating inks with Gecko Base

Inks within the Gecko system are formulated out of the appropriate Gecko Base products and the system additive. In order to achieve the right ink properties it is essential to respect always the right ratio between Gecko Base and the system additive. The right colour strength is obtained by using the appropriate amounts of colour concentrates and NC-varnish (colour-less concentrate).

The following table illustrates the formulation principles:

Gecko Series	Gecko Base/NC-varnish	System additive	Faktor Syst. Add/GB
Frontal Plus, Eco, Uni	75	25	0.33
Bond Top, Star	67	33	0.50

When formulating an extender (i.e. „colour-less ink“) the same principles apply using pure Gecko Base NC-varnish instead of the pigment concentrate. For an optimal formulation of the inks it is recommended to use the Gecko calculator. This tool contains also a detailed guideline on ink formulation.

Use in Dispenser

Gecko Base concentrates are ideal for use in a dispenser. Due to carrying properties of the different pigments used it is essential to define the appropriate dispenser configuration in terms of pumps, piping etc. Please contact your local service center for this issue.

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.

Gecko Base pigment concentrates: Fastness properties

Standard concentrates

shade	pigment sales code	C.I.	fastness properties								compatibility		
			light full print	water	lactic acid		alkali	soap	butter	bread sterilisation	alkaline cleansing solution *)	weather resistance	
NC-varnish (EtOH based)	00GB274057	-	-	-	-	-	-	-	-	-	-	-	-
NC varnish (EOP based)	00GB295711	-	-	-	-	-	-	-	-	-	-	-	-
gloss varnish**)	00GB262646	-	-	-	-	-	-	-	-	-	-	-	-
yellow, process	01GB133083	P.Y.13	5	5	5	5	5	5	5	yes	yes	no	
yellow, raster process	01GB242761	P.Y.13	5	5	5	5	5	5	5	yes	yes	no	
yellow, greenish	01GB133079	P.Y.74	6	5	5	5	5	5	5	no	yes	appr. 6 month	
yellow, reddish	01GB133080	P.Y.83	5-6 (d)	5	5	5	5	5	5	yes	yes	no	
orange	02GB133078	P.O.34	5-6	5	5	5	5	5	5	yes	yes	no	
red, yellowish	02GB133532	P.R.53:1	3	3	3	3	4-3	3	5-4	no	no	no	
red, bluish	02GB133540	P.R.48:2	6	4	1	3-2	5-4	2	5	yes	no	no	
magenta, process	02GB133531	P.R.57:1	6	3-4	1	3-2	2	2	5-4	no	no	no	
magenta, raster process	02GB242766	P.R.57:1	6	3-4	1	3-2	2	2	5-4	no	no	no	
pink	02GB133523	P.R.122	7	5	5	5	5	5	5	yes	yes	appr. 6 month	
violet	03GB134433	P.V.23	7	5	5	5	5	5	5	yes	yes	> 6 month	
cyan, process	03GB134430	P.B.15:4	7	5	5	5	5	5	5	yes	yes	> 6 month	
Cyan, raster process	03GB242767	P.B.15:4	7	5	5	5	5	5	5	yes	yes	> 6 month	
green	04GB135177	P.G.7	7	5	5	5	5	5	5	yes	yes	> 6 month	
white	07GB135708	P.WH.6	7	5	5	5	5	5	5	yes	yes	> 6 month	
black, process	09GB135971	P.BK.7	7	5	5	5	5	5	5	yes	yes	> 6 month	
black, raster process	09GB239755	P.BK.7	7	5	5	5	5	5	5	yes	yes	> 6 month	

special concentrates

shade	pigment sales code	C.I.	fastness properties								compatibility		
			light full print	water	lactic acid		alkali	soap	butter	bread sterilisation	alkaline cleansing solution *)	weather resistance	
yellow, greenish	01GB242753	P.Y.111	6	5	5	5	5	5	5-4	yes	yes	no	
yellow, greenish	01GB133077	P.Y.185	7	5		5	1	5	5	yes	no	no	
orange	02GB133081	P.O.5	7	5	5	5	5-4	5-4	5	no	yes	appr. 6 month	
red, yellowish	02GB133538	P.R.2	6	5	5	5	5	5	2	no	yes	no	
red, yellowish	02GB133539	P.R.48:1	4	5	2-1	5-4	5	4	5	yes	no	no	
red, yellowish	02GB244765	P.R.112	6	5	5	5	5	5	4-3	no	yes	appr. 6 month	
red, bluish	02GB133528	P.R.48:4	7	5-4	1	3	5-4	1-2	5	yes	no	appr. 2 month	
red, bluish	02GB133527	P.R.185	6-7	5	5	5	5	5	5	yes	no	appr. 3 month	
magenta, process	02GB133537	P.R.184	5-6	5	5	5	5	5	5	yes	yes	no	
magenta, raster process	02GB212212	P.R.184	5-6	5	5	5	5	5	5	yes	yes	no	
red, fanal	02GB133530	P.R.81	1 (d)	5	4	5	5-4	1	5	no	no	no	
violet, fanal	03GB238567	P.V.3	2 (d)	5	?	4	5	5-4	5	no	no	no	
black	09GB219560	P.BK.7	7	5	5	5	5	5	5	yes	yes	> 6 month	

Suitability of chosen pigments for high temperature applications such as pasteurisation or steam sterilisation has to be checked thoroughly under real life conditions

*) compatibility with alkaline cleansing solution at elevated temperature (wet glue labels)

**) please refer to the respective technical data sheet of this product.

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.