

materials and processing

peyer

PRINTING SAMPLES

FABRIC	1	COMTESSE		30111 weiß
	2	DUCHESS		90100 diamantweiß
	3	DUCHESS offset		11111 weiß
	4	DUCHESS metallic		99010 silber
	5	PRINCESSE		6111 diamantweiß
	6	MATTEINEN		316 weiß
PAPER/ PAPERBOARD	7	SURBALIN 135 g/m ²	linea	5111 diamantweiß
	8	SURBALIN 115 g/m ²	seda	8111 diamantweiß
	9	SURBALIN 115 g/m ²	glatt	6111 diamantweiß
	10	SURBALIN 115 g/m ²	gerippt	4132 chamois
	11	SURBALIN perleffekt 115 g/m ²	glatt	10130 gold pastell
	12	SURBALIN vario 100 g/m ²	shadow	200100 diamantweiß
	13	SURBALIN vario 100 g/m ²	shadow	200400 lindgrün
	14	SURBALIN vario 100 g/m ²	leather	202103 natur
	15	SURBALIN vario 100 g/m ²	wood	201804 havanna
	16	PEYTAN 200 g/m ²	glatt	
	17	PEYPRINT 130 g/m ²	gehämmert	
	18	PEYPRINT 270 g/m ²	asper	
	19	PEYDUR 135 g/m ²	lisse	
	20	PEYWAVE 155 g/m ²		
	21	COMET 300 g/m ²	wire	diamant
REFERENCE SAMPLE	22	PICTURE PRINTING PAPER (135 g/m ² matt - coated)		

PRINTING DATA

The enclosed printing samples were produced in accordance with the following printing data:

prepress stage	pdf
screen	60 1/cm screen AM
printing plates	AGFA P 970
printing format	60 cm x 80 cm (two up) 40 cm x 60 cm (one up)
printing inks	colours – Euroscale of Michael Huber München GmbH: Foils black OD 49N 5030 Foils blue OD 43N 5030 Foils red OD 42N 5030 Foils yellow OD 41N 5030 Special inks: Pantone Black 4
fountain additive	Substifix HD 8301-29 of Michael Huber München GmbH
varnish	none
printing press	Heidelberger Speedmaster CD 72 x 102 LYL
further information	<p>_ In order to ensure an optimum drying process, exclusively foil inks were used for printing. In this case it is of crucial importance to use as little fountain water as possible in order to speed up the drying process.</p> <p>_ In case of the special colour the colour was not adapted, therefore the difference between uncoated (u) and coated (c) is clearly visible.</p> <p>_ No additives should be added to the printing ink. in order to optimize the drying process of the ink, 3 % Grafodrier were added.</p> <p>_ When printing the samples for comparison the offset printing process standard (PSO) was observed. With all other materials no standard was set, as the requirements concerning the dot gain differ a lot due to the different surface characteristics.</p> <p>_ None of the printing samples was varnished.</p> <p>_ Materials with strongly textured surfaces have a tendency to paper distortion (register-true printing). Therefore it is recommended, to print them one up. In case of the printing samples at hand printing in the size of 60 cm x 80 cm was done two up and in the size of 40 cm x 60 cm one up.</p>

The above-mentioned information is the printers' recommendation who produced the printing samples for us.

PRINTING RECOMMENDATIONS

PEYTAN, PEYPRINT, PEYDUR AND SURBALIN

Peyer-substrates are made of high-quality, mainly long fibred sulphate pulp and can be excellently printed and perfectly converted. In order to achieve an optimum printing result it is important to adjust the printing technological conditions to the substrates used. The following tips will ensure a problem-free converting process:

1 PRINTING INKS

- 1.1 Use highly oxidatively drying inks.
- 1.2 Use abrasion-resistant types of ink.
- 1.3 Printing ink manufacturers' recommendations (selection):
 - _EUROSKALA of Michael Huber
 - _IROCAT and CARTOSET of Hartmann Druckfarben
 - _Euro-Eco-Yellow, Magenta, Cyan and Black of Epple Druckfarben
 - _Series TEMPO NATURE of SICPA Druckfarben
 - _RESISTA N 9000 of Michael Huber Druckfarben
 - _LITHO-SET-HAT-Anti-Skin-Inks of Siegwirk Druckfarben
 - _SERIE EU 8195 of Gebr. Schmidt Druckfarben
 - _NOVAFIT F100 of BASF Drucksysteme
- 1.4 Drying additive: Grafodrier of Michael Huber Druckfarben

2 DAMPING SOLUTIONS

- 2.1 Work with as little flow of damping solution as possible.
- 2.2 Do not use any glycerine-containing damping solutions!
If the chemical composition of the damping solution is not known, you should work without any admixture to the damping solution at any rate. pH value of the damping solution should be 5.3-5.4, 5.6. would be even better.
- 2.3 Damping solution manufacturers' recommendations (selection):
 - _SUBSTIFIX HD 8301-29 of Michael Huber Druckfarben
 - _HYDROFIX B 801309 of Hostmann - Steinberg
 - _SICCO Damp 3521 of Vegra
 - _GRÜNE WELLE 50 - 260079-6 of Siegwirk
 - _AQUASTABIL F H 5320/5321 of Hartmann Druckfarben
 - _Waterfif of Epple Druckfarben
 - _SM 93 of SIPCA Druckfarben
- 2.4 When working with alcohol damping systems not more than 8-12% isopropyl alcohol should be used.
- 2.5 It is recommended to add a small quantity of damping solution drying agent.

3 DRY SPRAYING

- 3.1 It is best to use only little powder or to avoid any use of powder at all.
- 3.2 Use only starch powder.
- 3.3 Grain max. 20 µ

4 VARNISHING

- The coated quality PEYTAN
- 4.1 Abrasion-resistant dispersion varnishes which are applied by means of the printing units or an integrated varnishing unit will result in a clear improvement of the abrasion resistance.
 - 4.2 Varnish manufacturers' recommendations:

Concerning the varnishing unit:	concerning the ink unit:
_Huber dispersion varnish 670100/50	_Huber acrylic varnish 570800/05
_Siegwerk W.Univ.-Disp.-Lack 10-606121-0	_Vegra dispersion varnish 1501
_Epple dispersion varnish 1104 high gloss, 1105 matt	
_BASF Drucksysteme Novaset 3147	

5 DRYING PERIOD

The drying period should amount to at least 24 hours in order to realize a problem-free converting process. In any case a longer drying period will lead to a improved result.

This information is supplied without liability. If you have any questions, please directly contact the respective departments of the printing ink and varnish manufacturers.

IMPRINT

Materials

_Covering: COMTESSE 30192 (1/0-colour offset printing)

_Fly-leaf: SURBALIN seda 8122

_Data sheets: PEYDUR 135 g/m² lisse

ARNOLDSCHÉ
Art Publishers

Printing subject

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CPI
EBNER & SPIEGEL

Production of printing sample

CPI Ebner & Spiegel, Ulm

B E R B E R I C H
Systems®

Production of Files

Berberich Systems, Abstatt

KOCHAN & PARTNER



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