FAVINI

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Technical Data Sheet - 13.10.2009

BINDAKOTE

Product Description

Bindakote is the original brand of prestigious cast coated papers and boards. Super smooth and mirror gloss surface, excellent stiffness and bulk, specific qualities for labelling, high colour integrity and market leading drying properties make Bindakote the right choice for all sophisticated printing and converting processes.

Bindakote Cover White 215g/m^2 and 250 g/m^2 are certified for digital printing on HP Indigo.

Bindakote it is availible in a wide range: low grammages for labelling, also in wet strength version, and grammages for printing and packaging application.

Technical Data

THE FOLLOWING DATA REFER TO BINDAKOTE WRAP (wet strength for wet labelling and refundable bottles)

	Method		+/-	80 g/m^2	90 g/m^2
Basic Weight	ISO 536	g/m^2	5%	80	90
Caliper	ISO 534	µm	5%	92	104
Bulk	ISO 534	cm^3/g	5%	1,1	1,2
Gloss 20°	ISO 2813	%	>	30	30
TAPPI Brightness	ISO 2470	°E	2	87	87
Wet Tensile Strength MD	ISO 3781	KN/m	>	0,9	0,9
Cobb 120''	ISO 535	g/m^2	2	22	22
L&W Stiffness MD	ISO 2493	mN	>	100	150
L&W Stiffness CD	ISO 2493	mN	>	50	75
Moisture content	ISO 287	%	1	5,5	5,5

THE FOLLOWING DATA REFER TO BINDAKOTE COVER A.C. (moisture resistant for dry labelling)

	Method		+/-	80 g/m^2	90 g/m^2	100 g/m^2	120 g/m^2	135 g/m^2
Basic Weight	ISO 536	g/m^2	5%	80	90	100	120	135
Caliper	ISO 534	µm	5%	92	104	118	145	165
Bulk	ISO 534	cm^3/g	5%	1,1	1,2	1,2	1,2	1,2
Gloss 20°	ISO 2813	%	>	30	30	30	30	30
TAPPI Brightness	ISO 2470	°E	2	87	87	87	87	87
Cobb 120''	ISO 535	g/m^2	2	20	20	20	20	20
L&W Stiffness MD	ISO 2493	mN	>	100	150	210	390	610
L&W Stiffness CD	ISO 2493	mN	>	50	75	105	185	245
Moisture content	ISO 287	%	1	5,5	5,5	5,5	5,5	5,5

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THE FOLLOWING DATA REFER TO BINDAKOTE COVER WHITE (1/side coated)

	Method		+/-	180 g/m²	200 g/m²	215 g/m²	250 g/m²	275 g/m²	300 g/m²	350 g/m2
Basic Weight	ISO 536	g/m²	5%	180	200	215	250	275	300	350
Caliper	ISO 534	µm	5%	220	252	270	315	355	387	462
Bulk	ISO 534	cm³/g	5%	1,2	1,3	1,3	1,3	1,3	1,3	1,3
Gloss 20°	ISO 2813	%	>	45	45	45	45	45	45	45
TAPPI Brightness	ISO 2470	°E	2	87	87	87	87	87	87	87
Taber Stiffness MD	ISO 2493	mN	>	50	70	90	140	180	240	400
Taber Stiffness CD	ISO 2493	mN	>	25	35	45	70	90	120	200
Moisture content	ISO 287	%	1	5,5	5,5	5,5	5,5	5,5	5,5	5,5

THE FOLLOWING DATA REFER TO BINDAKOTE COVER BILUCIDO 2/side coated

	Method		+/-	210 g/m²	250 g/m²	300 g/m²	350 g/m²
Basic Weight	ISO 536	g/m²	5%	210	250	300	350
Caliper	ISO 534	µm	5%	227	270	324	375
Bulk	ISO 534	cm³/g	5%	1,1	1,1	1,1	1,1
Gloss 20°	ISO 2813	%	>	45	45	45	45
TAPPI Brightness	ISO 2470	°E	2	87	87	87	87
Taber Stiffness MD	ISO 2493	mN	>	65	120	220	350
Taber Stiffness CD	ISO 2493	mN	>	32	60	110	175
Moisture content	ISO 287	%	1	5,5	5,5	5,5	5,5

THE FOLLOWING DATA REFER TO BINDAKOTE BLACK ON BLACK

	Method		+/-	250 g/m²
Basic Weight	ISO 536	g/m²	5%	250
Caliper	ISO 534	µm	5%	315
Bulk	ISO 534	cm³/g	5%	1,2
CIE L* (Coated side)	ISO 2469-70	n°	1,5	6,0
CIE a* (Coated side)	ISO 2469-70	n°	1,0	0,4
CIE b* (Coated side)	ISO 2469-70	n°	1,0	-9,5
TAPPI Brightness	ISO 2470	°E	2	87
Taber Stiffness MD	ISO 2493	mN	>	140
Taber Stiffness CD	ISO 2493	mN	>	70
Moisture content	ISO 287	%	1	5

Special makings are available upon request.

ECF ELEMENTARY CHLORINE FREE · pH NEUTRAL · LONG-LIFE ISO 9706 · FSC www.fsc.org FSC® C014126 The mark of responsible forestry

Bindakote conforms to ISO 9706 requirements for permanence and is suitable for archival use or applications requiring "Acid Free" paper. It is biodegradable and recyclable.

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Printing and finishing recommendations

Printing job Preparation: Bindakote is produced to be dimensionally stable at 50 % U.R. 21-23 °C. Care should be taken to avoid extremes of humidity and temperature, in the print room. Keep in mill wrappers for as long as possible and protect from extremes of hot and cold.

Print processes: All the standard white Bindakote products from label grades to the heaviest card grades share the same surface and print characteristics. Our range of pastel Shades can be printed in exactly the same manner as the standard high white product. Bindakote bright tints, shine & pearl, metallics & black need special advice for printing. (See Inks section)

Offset Litho: This is the most popular process for the printing of Bindakote. In addition to giving you excellent print quality, Bindakote runs cleanly on press. In our experience best results are obtained by using: minimum quantity of ink, minimum printing pressure, minimum dampening solution and transparent inks so that the gloss of the Bindakote surface is preserved. Dampening solution is advisable to keep the PH buffered and not to go below 5. It is recommended to use isopropyl alcohol in the standard quantity.

Gravure and Flexography: These methods of printing rely on surface smoothness, which is vital if good printing quality is to be achieved. Bindakote's ultra smooth surface will give you superb results. Flexography is especially popular for printing self-adhesive labels.

Letterpress: Used extensively for the printing self-adhesive constructions, the compressibility inherent in Bindakote makes it ideally suited to the letterpress process. Keep cylinder pressures light especially when printing the reverse side.

Screen-printing: Bindakote's polished surface offers an ideal platform for silkscreen printing.

Copier, laser and ink jet compatibility: Good performance is obtained in photocopying, laser and digital printing.

Digital printing: Bindakote Cover 215 gsm and 250 gsm has been certified for hp indigo by RIT, USA. In the past Bindakote Cover 80 gsm has been awarded 1A certification for Digital Printing by Xeicon.

Electrophotographic processes: testing is necessary due to the risk of post fuser curl

Heatsetweb offset: not recommended, due to the risk of blistering

Inks: Inks normally used for coated papers can also be used for Bindakote thanks to its microporous absorbant surface. Exceptions are bright, metallic, pearly, black and matt colours, whose surfaces have lost their absorption properties due to the significant quantity of pigment used. In these cases the use of totally oxidizing inks such as those for plastic films or U.V. Inks are recommended.

Matt Inks: these are inks, which by obstructing the passage of light inhibit the surface gloss thereby achieving special effects. They can be used in all circumstances

Metallic inks: they are available in a wide range of colours (gold, silver..) They are divided in two categories: bi-component and monocomponent. Ink technology has now overcome past problems caused by monocomponent inks (Blakening, tone variations etc..) These inks require certain precautions. These are inks that on Bindakote enhance gloss and coverage since the metallic pigments of which they consist are evenly spread on the smooth surface.

U.V. Inks: can be used on Bindakote without any problems. These inks have a photo sensitive polymer as their base which, when exposed to beams of light (Ultra Violet rays) polymerizes and dried quickly.

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Foil blocking: The surface smoothness makes Bindakote very responsive to foil blocking and stamping.

Thermography: The heat generated during normal processing should have no adverse effects on Bindakote so it makes an excellent choice for this conversion method.

Varnishing: The glossy surface of Bindakote does not require varnishing. Varnishing is performed in all those cases where the surface needs to be protected in preparation for subsequent applications. According to the type of varnish it is possible to obtain wet- strength, scuff resistance and grease proofing in the manufacture of labels, book covers, small boxes, brochures etc.

U.V. varnish should be selected with care so as to obtain the same performance both on the printed and unprinted areas. This is an increasingly popular varnishing system with Bindakote, the final gloss effect will be produced by the varnish.

Film lamination: You'll get good results with all plastic films: cellulose acetate, polypropylene, PVC etc. This process produces high quality results. Before laminating the main precaution is to eliminate any drying powder during the printing process.

Gluing: Bindakote doesn't need particular glues. The cast-coated surface will give good intrinsic adhesion and the absorbency characteristics will also help with adhesive penetration. You will get firm bonds both on flat surfaces and seams. The reverse side is a standard uncoated side.

Embossing: The surface of Bindakote is flexible and extensible so go ahead and use the full range of embossing and die stamping techniques. The surface is resistant to cracking and dies varying depths can be used successfully.

Mill accreditations (Crusinallo VB-Italy)

Corporate Quality Management Standard	UNI EN ISO 9001
Environmental Management Standard	UNI EN ISO 14001
Occupational Health and Safety Management Standard	OHSAS 18001