Food compliance & decoration for premium packages

Nürtingen, May 13-16 2019
PrintCity is a **strategic alliance** recognised as the “connection of competence” across the entire printing and packaging value chain, promoting the **value of print and packaging**.

We deliver value to customers by gathering and **sharing leading global** know-how within a network.

We deliver **knowledge** via seminars, trade fairs, project studies, tutorials, publications and electronic platforms.

We do this since 20 years …
Your hosts

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KURZ

MetsäBoard

WEILBURGER

connection of competence
Our topics today

- Safe Food Secondary Packaging for Sweets
- 3D Effects Tactile and virtual effects
- Nature Cosmetics Presentation and gift box
Food safe Candy Box
Packaging design by Metsä Board for Candy Box
Packaging analysis & design

We help you to ensure that your packaging always performs to the best possible level

- from material, design, cost and sustainability perspectives

Our design team is truly global, ensuring that packaging and designs match consumer tastes and capitalise on new trends
Unique shape and extensive print enhancement
This folding box is destined to serve as secondary packaging for foil-wrapped candy. It was produced in line with European food regulations and is characterised by its unique shape, practical opening and closing mechanism, sustainable materials and eye-catching print enhancements.

MetsäBoard Prime FBB 270 gsm
Food packaging in memorable shape, optics and functionality

Cold transfer application of KURZ LIGHT LINE® white series „Frost“
LIGHT LINE® White Series „Frost“

LIGHT LINE® White Series designs bring surfaces literally to life

Precious matting combined with restrained holographic effects and reduced rainbow gradients
Food Compliance

- SQTS-certified ➔ no migration
- Easy to recycle and deinkable
Coating amount calculator
Coating amount calculator
Coating amount calculator

**Coating data**

- **Anilox roller used:** ART - 10 cm²/rev, 1.6 BCM
- **Coating area coverage straight printing in %:** 60
- **Coating area coverage reverse printing in %:** 0

**Calculation results**

- **Wet application quantity coating unit:** 3.7 g/m²
- **Amount of coating required for the coating unit:** 8.15 kg

**Printing varnish area coverage straight printing in %:**

- 40
- 0

**Calculation results of printing varnish**

- **Amount of varnish required for the printing unit:** 2.2 kg

**Help and instructions**

Use our coating quantity calculator to calculate the required coating quantity for your print job.

Please note that these are only approximate values based on standard anilox rollers and the results of the calculation may differ from the actual coating quantities required. You should also remember that the result does not take into account the quantities of coatings required for circulation and that the calculation is only suitable for unpigmented coatings.

If you need help in operating our coating quantity calculator, if your anilox roller is not listed here or if you want to calculate coating quantities for pigmented coatings, opaque white or flexo inks, please do not hesitate to contact us.

**Basic job data**

- **Sheet width in mm:** 720
- **Sheet length in mm:** 1000
- **Run length incl. makeready sheet in K (thousand):** 5

**Hexagonal**

- Hexagonal - 5 cm²/m² | 3.3 BCM
- Hexagonal - 7 cm²/m² | 4.5 BCM
- Hexagonal - 9 cm²/m² | 5.8 BCM
- Hexagonal - 10 cm²/m² | 6.4 BCM

**Technical Service and Sales**

- **Phone:** +49 9132 9992-309
- **Mobile:** +49 151 18098951
- **Email:** sales@weilburger-graphics.de

**Quality management/Environmental management**
Coating amount calculator

• Available as desktop version and web app for all current smartphones (Native apps are currently being developed)
• In German, English, Spanish, Polish (Further languages follow)
• Currently designed for sheetfed offset or web offset by means of rapport (full adaption to web-fed printing systems such as KBA Cortina available on request)
• Current anilox rolls with GTT, Haschur, Hexagonal, ART available (Further anilox rolls and engravings available on request)
• Face and back printing calculation in one step
• Overprint coatings, TWIN and hybrid systems can also be calculated for double-sided printing jobs
Coating amount calculator

English desktop version:
http://www.weilburger-graphics.de/en/info/lackmengenrechner

English web app:
http://www.weilburger-graphics.de/wa/wgImr-en.html

English press release:
http://weilburger-graphics.de/en/node/138377

Whiteboard-Video:
Candy Box

**USP:**
Food product packaging, manufactured in an inline process, with distinctive shape, look and functionality

**Effects:**
Haptic SENOSOFT® matt coating in contrast with special effect cold foil, Pyrisma® effect pigment, hot foil embossing, blind embossing

**Machine requirements:**
Heidelberg ICS 670 with 8 EVA platforms, equipped with 6 flexo modules, one cold foil module, one hot foil embossing module; Heidelberg FCL 670 inline flatbed die-cutter with inline stripping and feed stations, gluing system.

**Design requirements:**
Distinct motif contours that can be rendered via cold and hot foil finishing, embossing and varnish effects. Relatively large areas must be included in the planning when using “frost” cold foil, because it cannot play out its full effect on small areas, due to its special design, reminiscent of window frost.
Candy Box

Design, technical design:
MetsäBoard Packaging Services

Technical design optimisation, gluing:
AR Packaging

Production management / Reprography / Documentation:
Alexander Dört

Coating plates:
Flint Group

Substrates:
MetsäBoard Prime FBB 270 g/m²

Printed at:
Heidelberg Web Carton Converting GmbH
USP:
Folding boxes in UV offset printing with low-migration SENOLITH® UV FP NDC PLUS lacquers

Effects:
Pigment lacquer effects, filigree hybrid varnishing effects

Machine requirements:
Four-colour offset press with at least one coating unit and UV equipment

Design requirements:
This folding box series is based on the already existing Arrow-Box, a shipping packaging produced using direct corrugated board printing. Design elements from this box will also be used for this folding box series. In addition, a tray will be produced to hold the four folding boxes in the carton box. Since overflowing design elements are used here, seamless transitions of the designs from tray to folding boxes must be ensured.
Production range:

CU1: SENOLITH® W3 GLOSS PRIMER FP DC 050071

PU1: YELLOW

PU3: Magenta

PU2: Cyan

PUT: BLACK

Offline finishing

CU2: SENOLITH® UV GLOSS LACQUER INLINE FP NDC PLUS 360483

CU1: SENOLITH® WB EFFECT PRIMER PEEL EFFECT 100 360320

CU1: SENOLITH® UV GLOSS LACQUER OVERPRINTABLE FP NDC PLUS 880436

PUT: SENOLITH® DB EFFECT MATT VARNISH HYBRID FP NDC 365424
UV Technology
UV Technology

- UV System: Key element related to safety
- Food Compliance: Constant output at 24/7
- Performance everytime
- Technology: Dedicated for the needs
UV Technology

- Adaption to the process, Selection of the right technology
- High Power = High Safety? No!
- Right Lamp, right Reflector, right LED Source, right Spectrum, right……
- Flexibility for changing needs in the future: Hot Swap (Lamp/LED)
UV Technology

A word about Food Compliance:

• Many even sensible Food packaging Products are produced with UV curing today (Liquid Packaging, Tobacco Packaging, Coffee Packaging etc.)

• Example: The provided sample and the foodbox you received @ lunch
A word about Food Compliance:

• Besides suitable inks and varnishes the UV Curing System plays an essential role: Insufficient Curing leads to a raised risk of migration issues

• Proper Conditions (including maintenance & servicing) ensures a proper function
Food safe Candy Box
3D and tactile premium Effects

Nürtingen, May 13-16 2019
3D effects – VAPack Folder

collection of competence
Nature Cosmetics Box
Nature Cosmetics Box

- **4-part** presentation and gift box
- **Color Forecast** for **cosmetic applications** from company Merck
- Current colour themes and how they can be implemented in cosmetic products
Hologram & Embossing
Hologram
KURZ TRUSTSEAL® Lens

VAPack
Value Added Packaging

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Multilevel blind (without foil) relief embossing (stamping dies by KURZ)
Nature Cosmetics Box
Gift box with prominent foil, bronzing and laser-cutting effects

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Nature Cosmetics Box

Gift box with prominent foil, bronzing and laser-cutting effects

LUMAFIN® yellow

LUXOR® 397 partially enhanced with appealing nanoembossed elements
Nature Cosmetics Box

USP:
Multi-part presentation and gift box with prominent foil, bronzing and laser-cutting effects.

Effects:
Bronzing with effect pigments, various hot foil embossing techniques with nanoembossing, matt/gloss effects tactile varnish effects, intricate laser-cutting (for a segment of the print run).

Machine requirements:
Four-colour offset press with coating unit and UV capability, bronzing machine, die-cutting machine, industrial high-speed laser-cutting system.

Design requirements:
Distinct motif contours that can be rendered using hot foil finishing, embossing, bronzing and varnishing effects; homogeneous, dark colour areas for achieving high brilliance with the selected pigment varnishes.
To ensure the highest possible level of process stability, a decision was made not to mask out any of the varnishes used underneath the areas of hot foil embossing. All of the varnishes therefore had to be suitable for over-printing and over-stamping.
Nature Cosmetics Box

Anilox rollers:  Primer:  Dispersion coating:

Die cutting  Hot foil stamping  WEILBURGER Graphics  Sealed with dispersion coating
(Die from Marbach)  (Tools from hinderer+mühlich)  LUMAFIN MS TIO YELLOW (Tools from hinderer+mühlich)  SENOLITH® UV OFFSET MATT VARNISH 369033

Bronzing with Merck effect pigment  WEILBURGER Graphics SENOLITH® WB GLOSS PRIMER FP DC 350071  Epple PMS 475C PROLASER ORANGE 128834
Iriedin 6163 Icy White Shimmer  Epple PMS 1485C PROLASER ORANGE 128833  Epple PMS 7596C PROLASER BROWN 128832

80 L/cm and 13 cm²/m²
80 L/cm and 17 cm²/m²

Design:
LEONHARD KURZ Stiftung & Co. KG, Julia König
Coating plates:
SCHACKI
Substrate:
MetsäBoard Pro FBB Bright 295 g/m²
Printed at:
Vrijdag Premium Printing
Laser-cutting system and service
LasX
Production management, documentation:
Alexander Dort

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EINLADUNG

PRoduktion
EMISSION
UMwelt!

GRAND ELYSÉE HOTEL
HAMBURG
[28. - 29. OKTOBER 2019]

STEIGENBERGER GRAF
ZEPPELIN HOTEL
STUTTGART
[25. - 26. NOVEMBER 2019]

WEITERE INFORMATIONEN:
[WWW.PIF6.DE]
Information & Dialogue

Interesting mix of
- Keynote Presentations
- Interaktive Breakout Sessions
- Networking
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