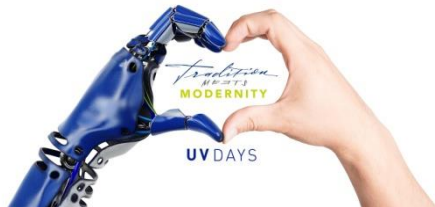


# Food compliance & decoration for premium packages

Nürtingen, May 13-16 2019



# PrintCity-Alliance – Who are we?

- 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

**IST**

**KURZ** 

 **MetsäBoard**

 **WEILBURGER**

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# 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



**epple**  
DRUCKFARBEN

**HEIDELBERG**

**IST**

**KURZ**



**MERCK**



**MetsäBoard**



**WEILBURGER**



PACKAGING

**buchner**  
STANZFORMEN

**CITO**

**FlintGroup**

**h+m**

**leupold**  
faltschachteln

**wekaform**  
Stanzwerkzeuge

**ZELLER + GMELIN**



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**Packaging design by  
Metsä Board  
for Candy Box**



- 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



# LIGHT LINE White Series „Frost“

## Food Compliance

- SQTS-certified → no migration
- Easy to recycle and deinkable



**140**  
**YEARS**

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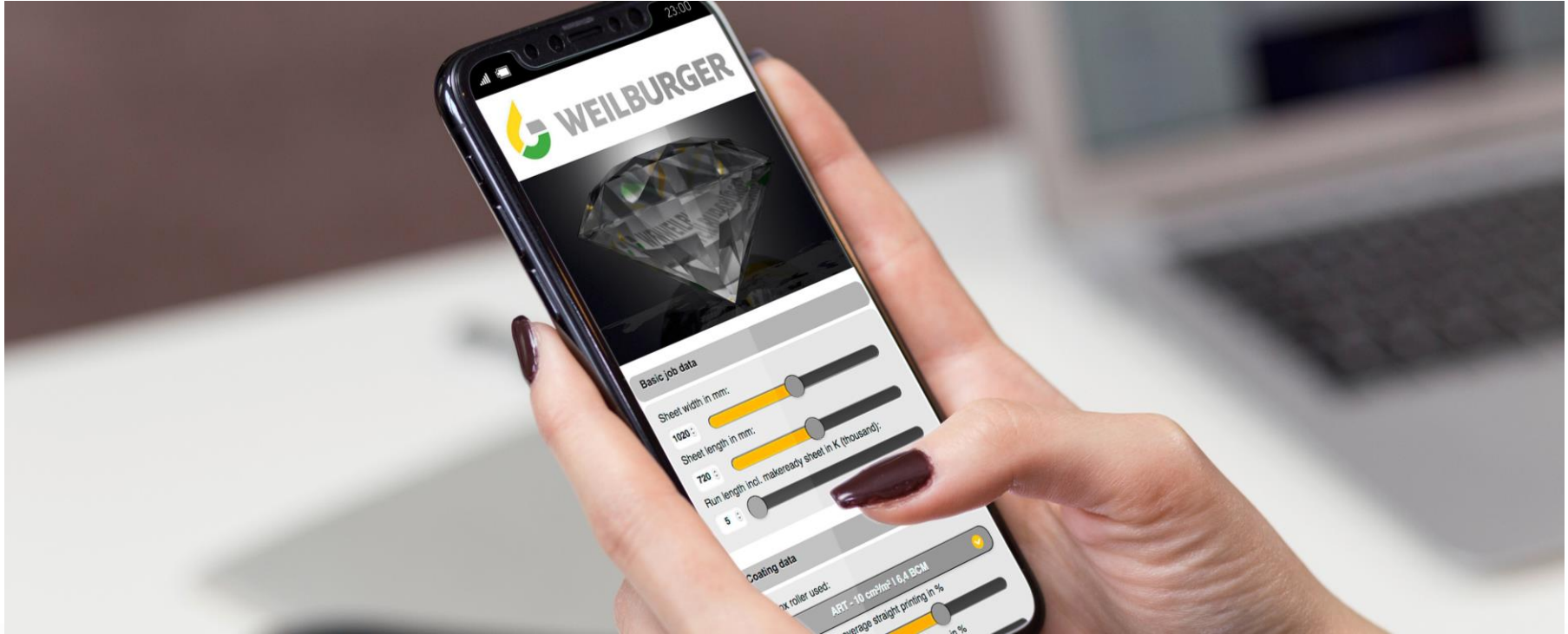


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Coating Calculator


**WEILBURGER**



Basic job data

Sheet width in mm:  
1020 :

Sheet length in mm:  
720 :

Run length incl. makeready sheet in K (thousand):  
5 :

Coating data

Anilox roller used:  
ART - 10 cm<sup>3</sup>/m<sup>2</sup> | 6,4 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/m<sup>2</sup>

Amount of coating required for the coating unit  
8,15 : kg

GTT - XL  
GTT - XXL

Hexagonal  
Hexagonal - 5 cm<sup>3</sup>/m<sup>2</sup> | 3,3 BCM  
Hexagonal - 7 cm<sup>3</sup>/m<sup>2</sup> | 4,5 BCM  
Hexagonal - 9 cm<sup>3</sup>/m<sup>2</sup> | 5,8 BCM  
Hexagonal - 10 cm<sup>3</sup>/m<sup>2</sup> | 6,4 BCM

SENOLITH®-TWIN-HYBRID-FINISHING

If you are planning a finishing with our two-component hybrid coating systems, you can also enter the area coverages for our TWIN-EFFECT printing varnish component below. The required amount of printing varnish is then calculated on the usual wet application quantity of 1.5 g/m<sup>2</sup>.

Printing varnish area coverage straight printing in %  
40 :

Printing varnish area coverage reverse printing in %  
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 coating 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.

Switchboard  
Managing Director  
Sales Director




Arno Dürr  
Sales Director  
Phone: +49 9163 9992-200  
Mobile: +49 151 18258951  
a.duerr@weilburger-graphics.de

Technical Service and Sales  
Secretariat  
Sales & Customer Service  
Regulatory Affairs  
Quality management/ Environmental management

Imprint

© WEILBURGER Graphics GmbH 2018

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- 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

**English desktop version:**

<http://www.weilburger-graphics.de/en/info/lackmengenrechner>

**English web app:**

<http://www.weilburger-graphics.de/wa/wglmr-en.html>

**English press release:**

<http://weilburger-graphics.de/en/node/138377>

**Whiteboard-Video:**

[http://www.weilburger-graphics.de/en/info/whiteboard-videos/coating\\_calculator](http://www.weilburger-graphics.de/en/info/whiteboard-videos/coating_calculator)





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**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

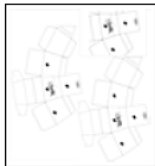
**Machine requirements:**

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.

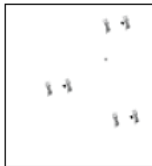
# Candy Box



Die-cutting and stamping (die-cutting tool from **Buchner** with cutting/creasing rules from **CITO**, stamping die from **inderer+mühlich**)



**WEILBURGER Graphics**  
SENOLITH® UV  
GLOSS LACQUER  
INLINE  
FP NDC  
360424



**Kurz**  
Hot stamping foil  
Luxor Alufin MTU  
Spezial Silber  
stamping die from  
**inderer+mühlich**



**WEILBURGER Graphics**  
SENOSOFT® WB  
MATT COATING  
FP NDC  
350210



**Merck**  
Pyrisma® effect  
pigment  
T 30-24;  
in carrier coating  
**WEILBURGER Graphics**  
SENOLITH® WB  
GLOSS PRIMER  
FP NDC  
350072



**Zeller+Gmelin**  
Pantone 376 C  
UVAFLX FCM Y81



**Zeller+Gmelin**  
Pantone Black 7C  
UVAFLX FCM Y81



**Kurz**  
LIGHT LINE®  
Frost Silver  
cold foil  
with  
**Zeller+Gmelin**  
ZG-UV-Flex U0842

Design, technical design:  
**MetsäBoard Packaging Services**

Technical design optimisation, gluing:  
**AR Packaging**

Production management / Reprography / Documentation:  
**Alexander Dort**

Coating plates:  
**Flint Group**

Substrate: :  
**MetsäBoard Prime FBB 270 g/m²**

Printed at:  
**Heidelberg Web Carton Converting GmbH**

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**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

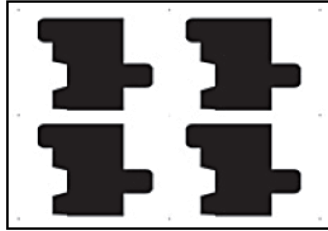
**Design requirements:**

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.

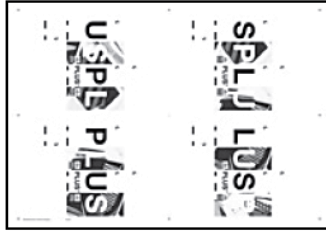
In addition, a tray will be produced to hold the four folding boxes in the carton box. Since overflowing design elements are used here, seamless transitions of the designs from tray to folding boxes must be ensured.



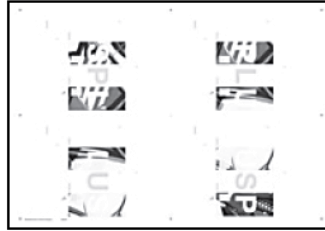
## Production range:



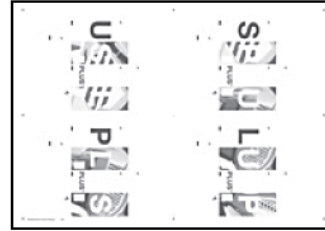
**CU1:**  
SENOLITH® WB GLOSS PRIMER FP DC  
350071



**PU4:**  
YELLOW



**PU3:**  
Magenta

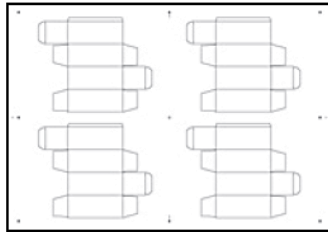


**PU2:**  
Cyan

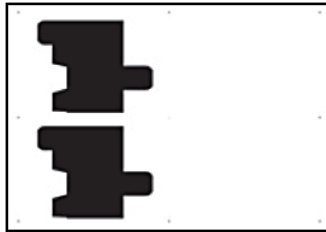


**PU1:**  
BLACK

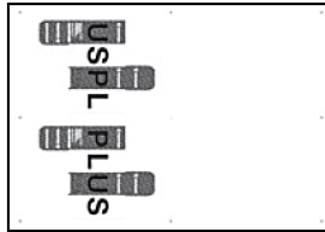
## Offline finishing



**CUTTING & CREASING**



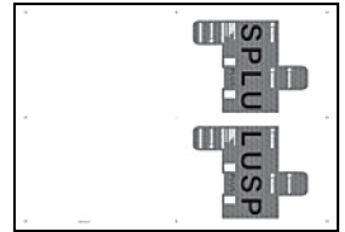
**CU2:**  
SENOLITH® UV GLOSS LACQUER INLINE  
FP NDC PLUS 360430



**CU1:**  
SENOLITH® WB EFFECT PRIMER  
PERL EFFECT 100 350329



**CU1:**  
SENOLITH® UV GLOSS LACQUER OVER-  
PRINTABLE FP NDC PLUS 360435



**PU1:**  
SENOLITH® OB EFFECT MATT VARNISH  
HYBRID FP NDC 355424

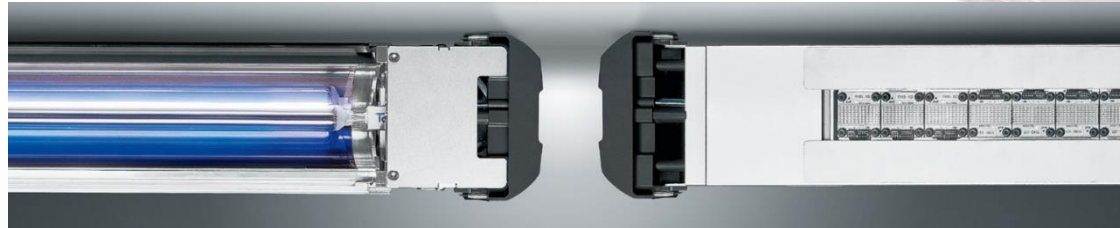


*connection of competence*

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



- 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)



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## 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 rised risk of migration issues
- Proper Conditions (including maintenance & servicing) ensures a proper function



# Food safe Candy Box



**epple**  
DRUCKFARBEN

**HEIDELBERG**

**IST**

**KURZ**



**MERCK**



**MetsäBoard**



**WEILBURGER**



PACKAGING

**buchner**  
STANZFORMEN

**CITO**

**FlintGroup**

**h+m**

**leupold**  
faltschachteln

**wekaform**  
Stanzwerkzeuge

**ZELLER + GMELIN**



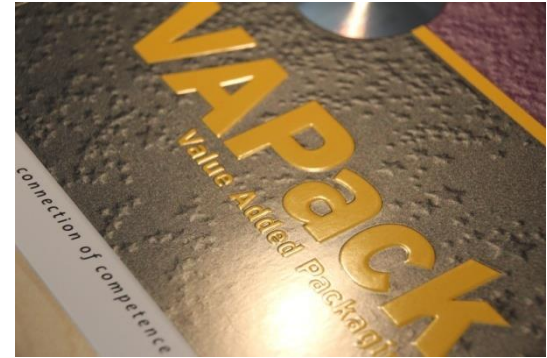
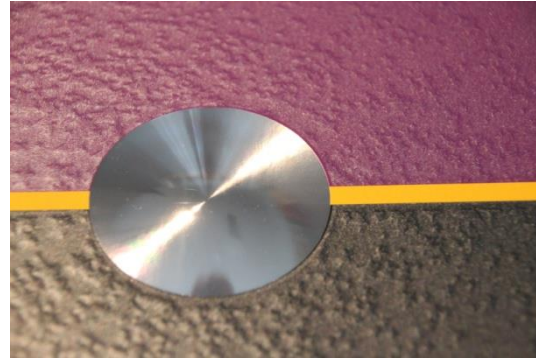
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# 3D and tactile premium Effects

Nürtingen, May 13-16 2019



# 3D effects – VAPack Folder



MetsäBoard



FlintGroup



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# Nature Cosmetics Box



*connection of competence*



# Nature Cosmetics Box

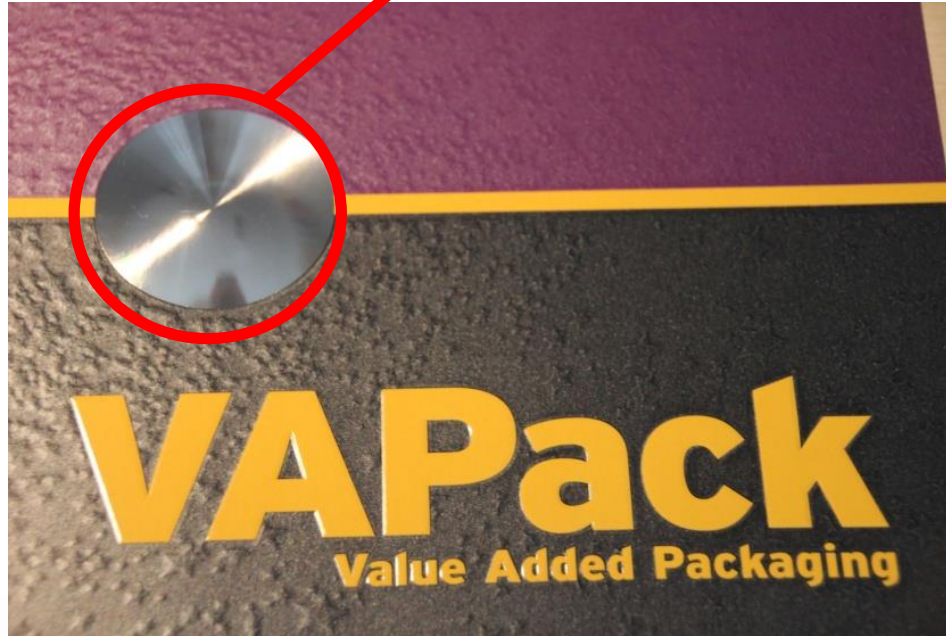
- **4-part** presentation and gift box
- **Color Forecast** for **cosmetic applications** from company Merck
- Current colour themes and how they can be implemented in cosmetic products






# Hologram

KURZ TRUSTSEAL® Lens



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Multilevel blind (without foil) relief  
embossing (stamping dies by h+m )

# 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 (h+m )



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**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

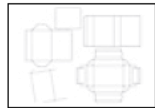
Anilox rollers:

Primer:

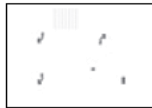
Dispersion coating:

80 L/cm and 13 cm<sup>3</sup>/m<sup>2</sup>

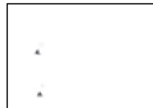
80 L/cm and 17 cm<sup>3</sup>/m<sup>2</sup>



Die cutting  
(Die from  
Marbach)



Hot foil stamping  
Luxor 397  
(Tools from  
hinderer+mühlich)



Hot foil stamping  
LUMAFIN MS  
710 YELLOW  
(Tools from  
hinderer+mühlich)



**WEILBURGER  
Graphics**  
SENOLITH® UV  
OFFSET MATT  
VARNISH 369003



Sealed with  
dispersion coating



Bronzing with-  
**Merck**  
effect pigment  
Iridin 6163 Icy  
White Shimmer



**WEILBURGER  
Graphics**  
SENOLITH® WB  
GLOSS PRIMER  
FP DC 350071



**Epple**  
PMS 475C  
PROLASER  
ORANGE  
128834



**Epple**  
PMS 1485C  
PROLASER  
ORANGE  
128833



**Epple**  
PMS 7596C  
PROLASER  
BROWN  
128832

Design:  
**LEONHARD KURZ Stiftung & Co. KG, Julia König**

Substrate:  
**MetsäBoard Pro FBB Bright 295 g/m<sup>2</sup>**

Laser-cutting system and service  
**LasX**

Coating plates:  
**SCHAWK!**

Printed at:  
**Vrijdag Premium Printing**

Production management, documentation:  
**Alexander Dort**

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# PrintCity Nature Cosmetics Box & VAPack Folder



**epple**  
DRUCKFARBEN

**IST** **KURZ**



**MERCK**



**MetsäBoard**



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# EINLADUNG

**GRAND ELYSÉE HOTEL  
HAMBURG**

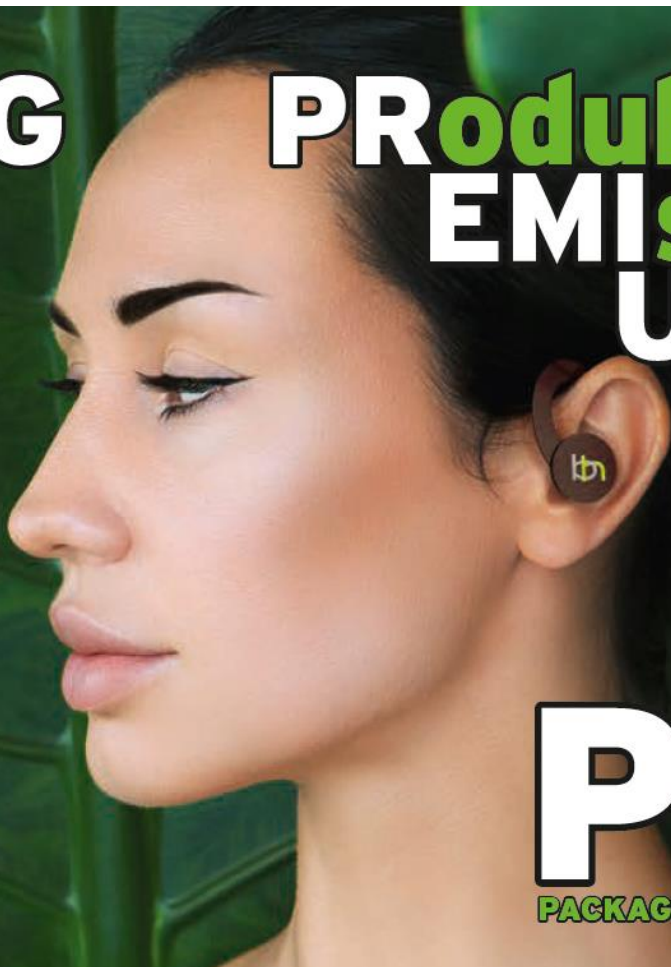
**[28. - 29. OKTOBER 2019]**

**STEIGENBERGER GRAF  
ZEPPELIN HOTEL  
STUTTGART**

**[25. - 26. NOVEMBER 2019]**

**WEITERE INFORMATIONEN:  
[[WWW.PIF6.DE](http://WWW.PIF6.DE)]**

# PRoduktion EMISSION UMwelt!



# PIF6

**PACKAGING INSPIRATION FORUM**

# Information & Dialogue



Interesting mix of

- Keynote Presentations
- Interaktive Breakout Sessions
- Networking



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# Food compliance & decoration for premium packages

Nürtingen, May 13-16 2019

