



## EB-Webinar

„Achieving Success with EB Curing for Décor and Finish Foils“

# COMPETENCE CENTER + COATINGS

Our headquarter in Weilburg since 1900



WORLDWIDE.  
NEARBY.  
ON TOP.



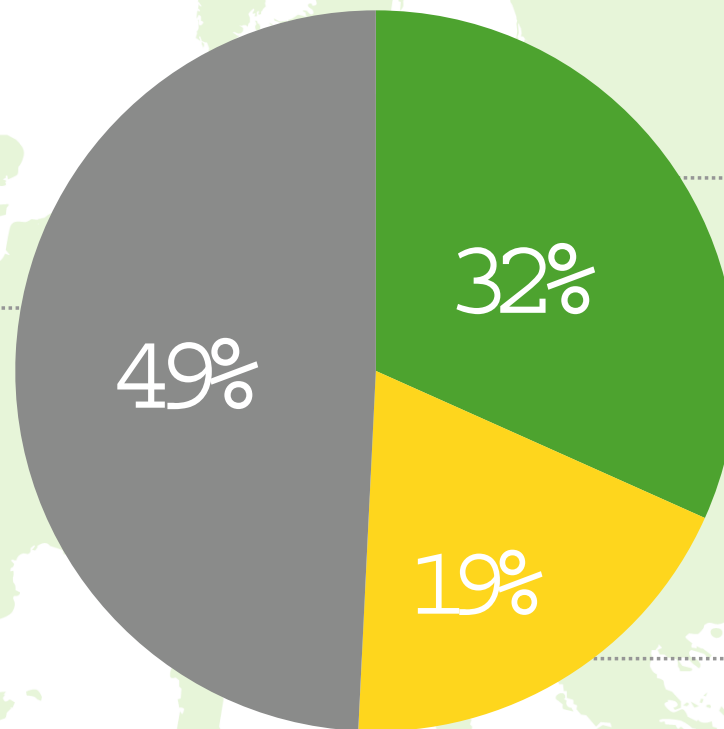
# KEY FIGURES

## Turnover worldwide 2019

WEILBURGER International



€111,7 million



WEILBURGER COATINGS GMBH



€71,3 million

WEILBURGER GRAPHICS GMBH

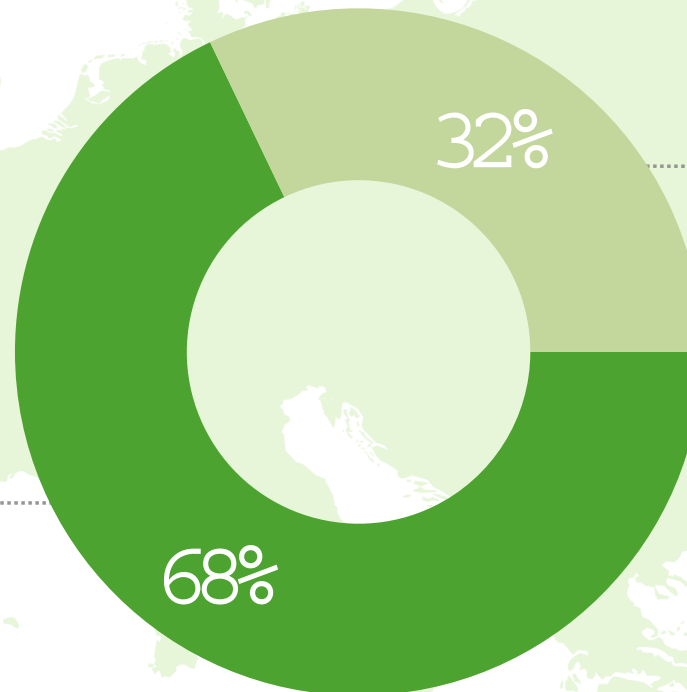


€43,0 million



# KEY FIGURES

Volume worldwide 2019



WEILBURGER INTERNATIONAL



To 13.008

WEILBURGER National



To 27.512



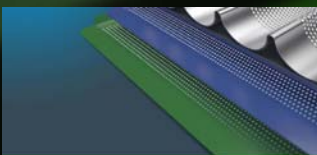
# PRODUCTS + COATINGS



senorail®  
Railway Vehicles



GREBLON® | Non-Stick  
Houseware



GREBLON® INS | Non Stick  
Industrial Bakery Coatings



senoglass®  
Glass Products



senotherm® | high temperature  
Stoves and Heating Appliances



senoptic®  
Eyewear Industry



protaral®  
Aluminium Packaging



rotocoat®  
Small Items and Zippers



WEILBURGER  
Furniture Industry and Floors



WEILBURGER  
Plastic Products



WEILBURGER  
Defence Technology



WEILBURGER  
Mechanical and Plant Engineering



WEILBURGER  
Building Elements

# EB-TECHNOLOGY BY WEILBURGER



Experienced for more than 20 years in various applications!

+COATINGS

 **WEILBURGER**

# Chemistry and construction of EB-Systems

## Paint components:

1. Binder
2. Pigment and Extender
3. Additives
4. Solvent / Monomers

# EB-coatings components

## Binder

unsaturated polymers with - CH = CH double bond

unsaturated acrylate resins

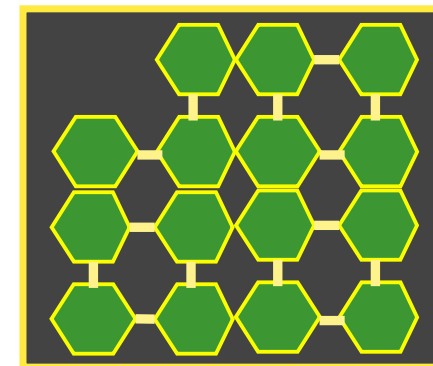
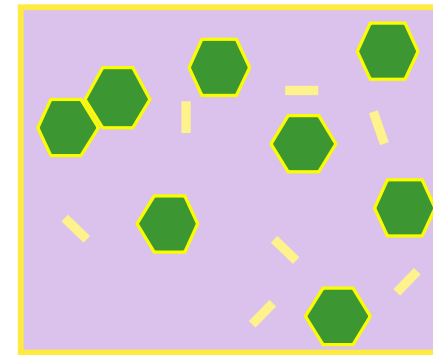
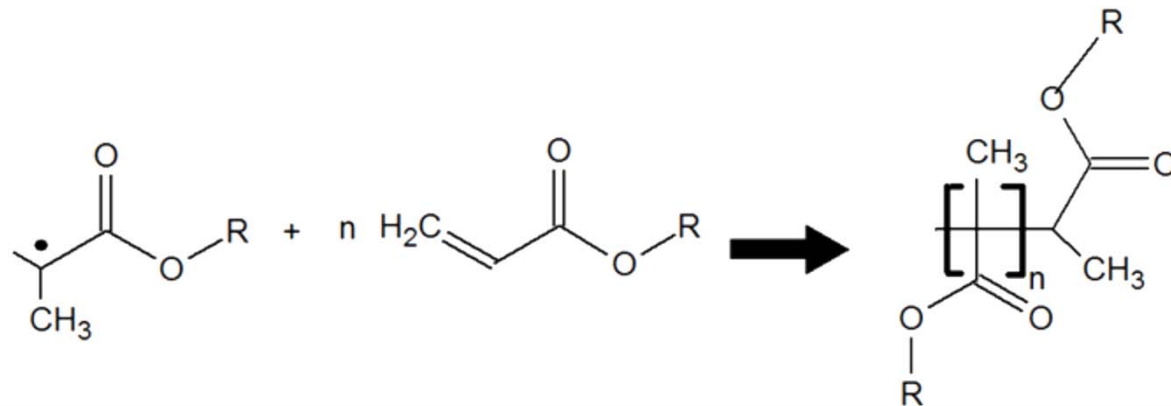
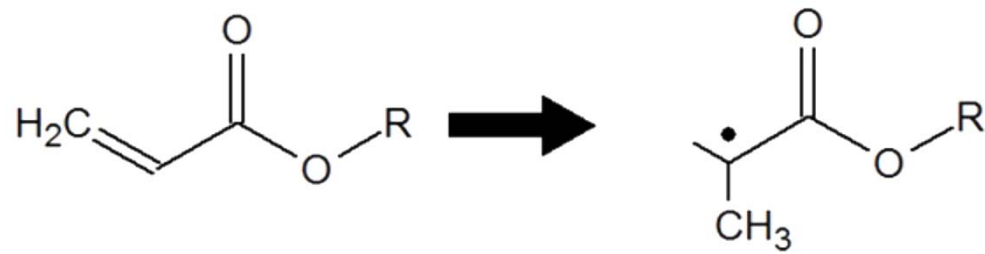
(e.g. polyester, polyurethane, epoxy systems ...)

## Solvents / Monomers

low molecular weight

unsaturated acrylate compounds with different functionality

# FB-REACTIONS



# Reachable Property profile

## **High cross linking and thereout resulting:**

1. High chemical resistance
2. Photostable surfaces
3. High abrasion resistance possible
4. Good cleanability
5. High mechanical strength
6. High scratch resistance reachable

# Advantages of EB-coatings

## In processing:

1. Recyclable
2. No volatile components, no change in storage or opened containers (or during varnish)
3. No curing or changing by environmental conditions/UV-light, temperature.
4. No explosion protection necessary (no solvent)

## Curing in production process:

1. Controlled curing of clear and coloured layers
2. Immediate roll up possible
3. Film thickness from 5  $\mu\text{m}$  until 300  $\mu\text{m}$  in one step curable
4. Band speed up to 300m/min and more

## Curing for substrate and end product:

1. Barely increase of temperature through irradiation process
2. No change of waterbalance in the substrate
3. Solvent- and emissions free surfaces (e.g. Formaldehyd)
4. Free of photoinitiator

# field of use

## Furniture and floor industrie

1. Decor and finish foils
2. Doors
3. Furnitures
4. Edge bands
5. Beds
6. Parquet and cork floors



range of products

Furniture and floor industrie

1. EB-systems
2. EB-excimer technology
3. UV-systems
4. UV-excimer technology
5. Water based one pack systems
6. Acid curing systems

# WEILBURGER 360° COMPETENCE



+COATINGS

# FUTURE DEVELOPMENTS

1. Further growth very likely, also through the substitution of other decorative surfaces.
2. Trend of stronger regulation of chemicals also affects the area of decorative and finish films.
3. Surface quality will continue to increase (new properties, higher resistances, renewable raw materials, ...)
4. Reduction of formaldehyde emissions inevitable

→ EBC-systems in advantage

# environmental protection and health care

In the development and production of our products we use efficient processes focussed on environmental protection and health care.

This is worthwhile for the company, our costumers and environment.



1. Responsible Care
2. Environmental Policy
3. Environmental Protection

A man with white hair and glasses, wearing a dark shirt, is leaning over a workbench in a factory setting. The background is dark and industrial, with some lights visible.

**WORLDWIDE.  
NEARBY.  
ON TOP.**

Perfectly **CUSTOMIZED PROJECT** implementation, **CREATIVE SOLUTIONS** for **HIGH-QUALITY** industrial and **TREND-ORIENTED** consumer goods, support in the selection of carrier material and application procedure through to **TECHNICAL SERVICES** in the production process. These make WEILBURGER the **IDEAL PARTNER FOR INDUSTRY** and trade.

# Contact us



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