

# Product Innovations



## Product Innovations

- Powder Coating Wood
- Powder Coating Flat Glass
- Digital Printing



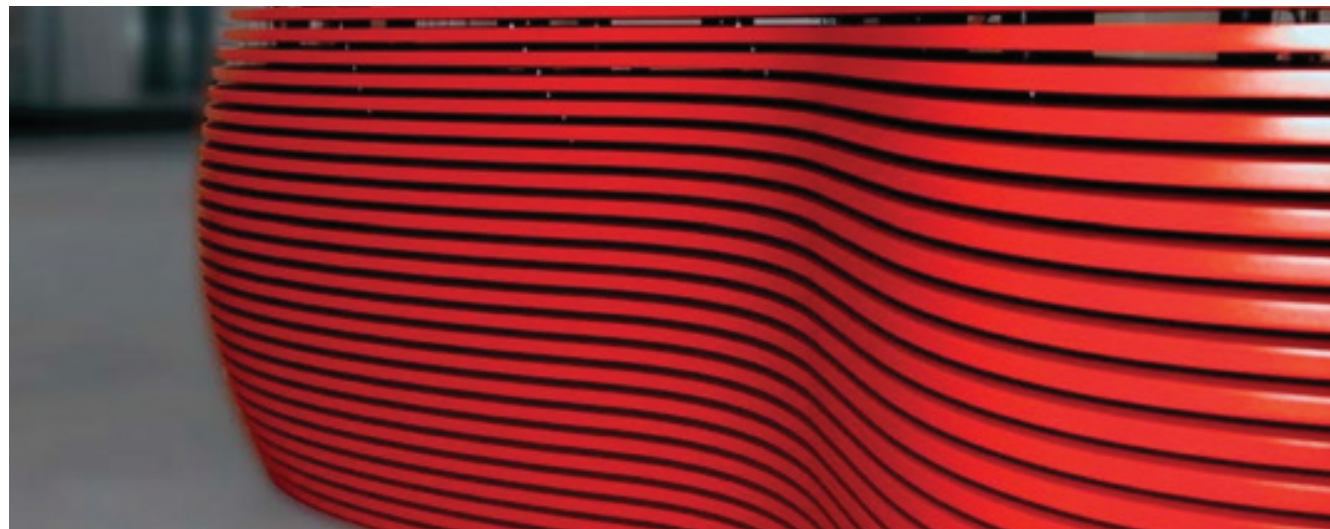
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## Powder Coating – Wood

In recent years the coatings industry has developed innovative solutions to address the application of organic coatings on wood. As an industry pioneer, TIGER Coatings has developed a technologically viable and economically attractive alternative in the form of powder coatings designed for application on MDF (medium density fiberboard) wood products. A transition to powder coating from traditional methods offers an improvement compared with traditional wet lacquering and PVC laminations offering enormous potential while featuring unique surface properties, economic advantages, and environmentally friendly chemistries free of VOC (volatile organic compounds) emissions that plague traditional practices.

### TIGER Drylac® Wood benefits at a glance

- robust and resistant surfaces
- excellent edge protection
- cost efficiency for material and application
- environmentally friendly
- freedom of design
- proven track record and references



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## Application

Unlimited possibilities exist for the utilization of powder coated MDF wood. These finishes are available in a variety of colors providing an esthetically pleasing and inspiring appearance. Powder coated wood finishes surround us in our every-day environment with powder coated cabinets, tables, shelves, entertainment centers, retail displays, and an ever-growing variety of ready-to-assemble furniture.



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## Coating Performance Data

The MDF coating performance is based on German Industry Standard DIN 68861-1:2011-01, designed for testing furniture surfaces for chemical resistance, abrasion resistance and scratch resistance, as well as wet heat and dry heat. The data tables shown in the TIGER Product Data Sheets and the TIGER Drylac® Wood Dual system (topcoat powder and powder primer or alternatively one-coat system) provide an overview of the DIN 68861-1:2011-01 requirements, rating system and the typical mechanical and chemical resistance data. Excellent classifications may be achieved assuming suitable manufacturing equipment and suitable MDF grades.

## TIGER Partner Companies

As the application of wood powder coatings is more technical than coating metal substrates. TIGER Coatings is eager to introduce your design team to a capable network of our partner companies with the technical expertise required to direct your project. These expert partners will help bring your project to market while seamlessly managing the application and curing of the specialty coatings. The implementation of wood powder coatings supported by the expertise of these skilled craftsmen has resulted in landmark creative innovations for interior design.

These partner companies will help manage the manufacturing of MDF wood products and furniture from design, throughout the manufacturing and shaping of components, and the application of wood powder coatings. A list of manufacturing partners is available on the TIGER Coatings website [www.tiger-coatings.com-applications-wood](http://www.tiger-coatings.com-applications-wood).

## New Investments - TIGER Consult

TIGER Coatings offers prospective investors consultative services specific to the powder coating industry, including the application of wood powder coatings to MDF boards. Our team will help you identify the required machinery, the appropriate grades of MDF, pre-heating and curing equipment, and environmental rooms required to achieve a state-of-the-art manufacturing process.

Upon your request, TIGER Consult can provide the technical direction necessary for your tailor-made operation. Included within your consultative package will be the necessary market intelligence, feasibility studies, and design support culminating in the construction of a modern manufacturing facility.

New investors are invited to take advantage of the vast technical and commercial knowledge accumulated within the TIGER professional Application Target Group (ATG) – Wood. A TIGER Coatings representative will be happy to introduce your team to our experts located at our global headquarters located in Wels, Austria.

## Contact:

wood@tiger-coatings.com

### Bathroom Furniture

Coater Finima Schweiger GmbH, Wartberg | AT  
Design Josef Pointl, Pettenbach | AT  
TIGER Drylac® Series 512  
530



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### Bathroom Furniture

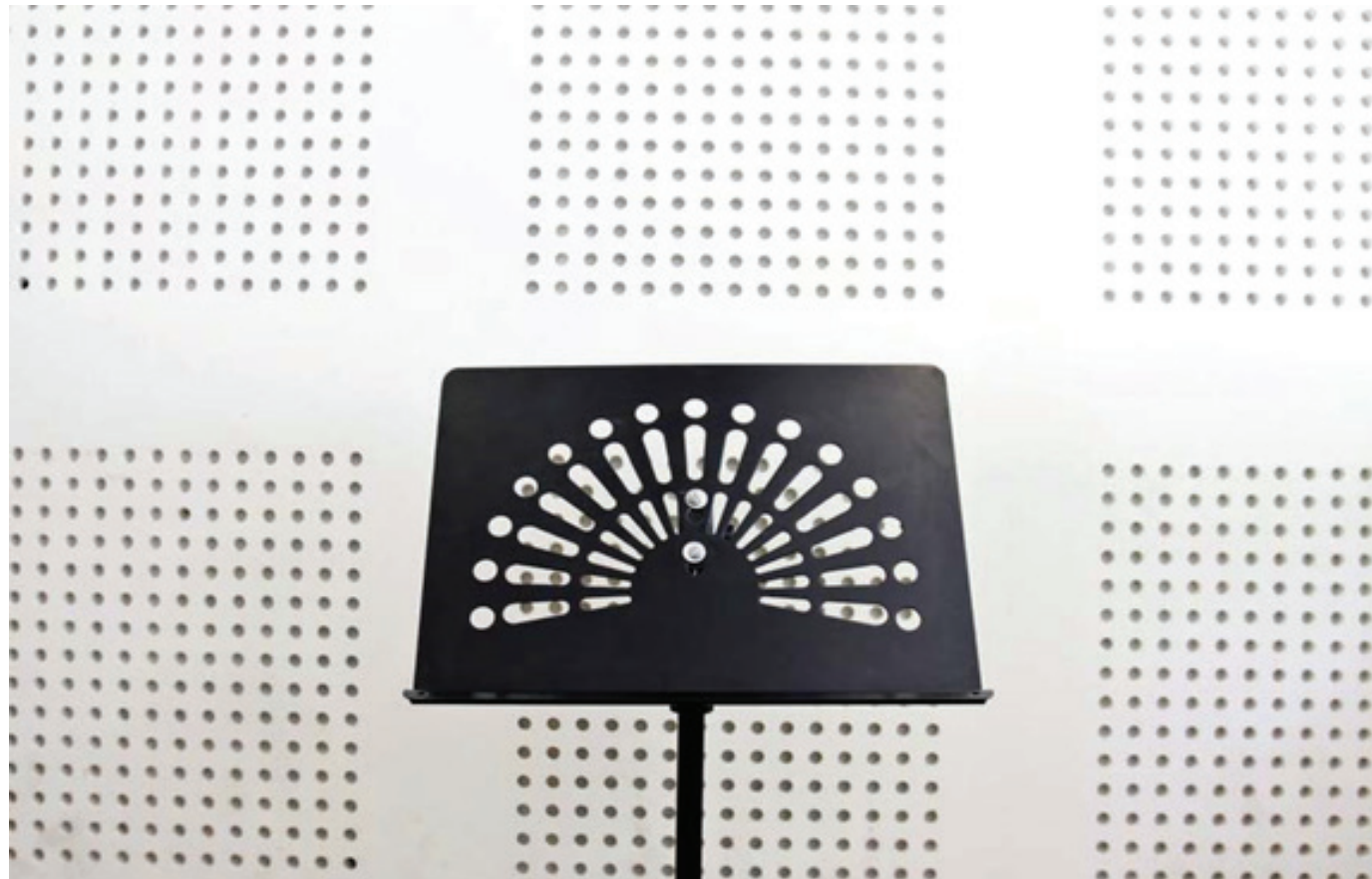
Coater Ramseier Woodcoat AG, Thun | CH  
Design & Manufacturing Baumann + Eggimann, Zaziwil | CH 512  
TIGER Drylac® Series 530



© Photography | Ramseier Woodcoat

### Acoustic Panels

Coater	POLYLAK NV, Antwerp region   BE
TIGER Drylac® Series	512 530



© Photography | POLYLAK NV

### Butterfly

Coater	Funder America Inc, Nocksville, NC/US
TIGER Drylac® Series	512 530



### Bathroom Washbasin

Coater POLYLAK NV, Antwerp region | BE  
Design Vasco Keukens & Inerieur  
TIGER Drylac® Series 512  
530



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### Kitchen Furniture

Coater FINIMA Schweiger GmbH, Wartberg | AT  
Design HAKA Küche GmbH, Traun | AT  
TIGER Drylac® Series 512  
530



### Kitchen Furniture

Coater	Ramseier Woodcoat AG, Thun   CH
Design & Manufacturing	Alpnach Küchen AG, Strengebach   CH 512
TIGER Drylac® Series	530



© Photography | Ramseier Woodcoat

### Kitchen Furniture

Coater	POLYLAK, Kalmthout   BE
Design & Manufacturing	Vasco Keukens, Kalmthout   BE
TIGER Drylac® Series	512 530





### Shop Interiors

Coater POLYLAK NV, Antwerp region | BE  
TIGER Drylac® Series 512  
530



© Photography | POLYLAK NV

### Office Furniture

Coater Ledro Powder Coatings, Houthalen | BE  
Design & Manufacturing BULO, Mechelen | BE  
TIGER Drylac® Series 512  
530



### Office Furniture

Coater	FINIMA Schweiger GmbH, Wartberg   AT
Design & Manufacturing	Bene AG - Büromöbel, Waidhofen a.d. Ybbs   AT
TIGER Drylac® Series	512 530



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### Office Equipment, Table Tops

Coater	POLYLAK NV, Antwerp region   BE
TIGER Drylac® Series	512 530



### Office Furniture VITRA

Coater	Sauter GmbH, Überlingen   DE
Design & Manufacturing	VITRA AG, Weil am Rhein   DE
TIGER Drylac® Series	512 530



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### Kitchens

Coater	POLYLAK NV, Antwerp region   BE
Design	Vasco Keukens & Interieur
TIGER Drylac® Series	512 530



### Grotrian Pianos

Coater Ledro Powder Coatings, Houthalen | BE  
Designer Grotrian-Steinweg, Braunschweig | DE  
TIGER Drylac® Series 512  
530



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### Powder Coating - Flat Glass

Decorative treatments for flat glass with thermo-curable organic powder coatings is a modern and particularly environmentally friendly process. This new technology solves the inherent problem of coating adhesion on glass surfaces and is now commercially viable for interior applications, e.g. furniture, kitchens, bathrooms, sanitary rooms, wall partitions, displays and shop fittings. For out-door applications, new powder coating systems are in the development stage.

Powder coatings for application on flat glass deliver outstanding mechanical properties, e.g. abrasion resistance due to the high film thickness and the thermosetting characteristics. Powder coatings for flat glass surfaces is also appropriate for high humidity environments, providing good adhesion of the coating to the glass surface.

#### Contact:

[glass@tiger-coatings.com](mailto:glass@tiger-coatings.com)



Powder coated flat glass

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## TIGER TIGITAL® Digital Printing

TIGER TIGITAL® specializes in innovative ink formulations for industrial inkjet print systems. We customize our inks to meet special print and manufacturing requirements in the production processes for a variety of different industries.



Austria Digital printed glass used for interior design

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## From Flexibility towards Value Innovation

The main driver for digital technology is flexibility in production, individualization and the ability to print even short runs cost effectively. In addition digital print technology is able to add value to simple products via colorful designs or flexible information printed on the product. This offers both a competitive advantage through innovation and a technology springboard to escape the commodity trap.

## Partner Network

Sole component products like digital inks need a strong partner network in order to transform them into a productive print technology. TIGER develops inks exclusively for OEM printer manufacturers and system integrators who are specialized in the engineering of industrial print solutions. Together with our OEM partners and the final user we customize our digital inks according to the industrial end-user's needs.

## Print Applications

- TIGITAL® inks are currently used for single pass and multi scanning inkjet printers for
- glass decoration on flat glass plates
- direct prints on glass bottles for the beverage industry
- decoration and advertising prints on metal plates
- wood decoration prints on fiberboards / MDF e.g. for floor panels, furniture, etc.
- paperboard packaging incl. food packaging e.g. for pizza boxes
- logo prints on plastic strapping bands
- decoration prints on thermo-formed plastic foils
- decoration prints on tissue paper
- decoration prints on concrete tiles for outdoor / garden use
- ...and many more.



Digital printed laminate panels

©Photography | Fotolia



Digital printed warning sign on concrete

©Photograpy | CTG

## Ink Products

TIGER TIGITAL® has developed various types of

- UV curing inks
- water-based inks
- special solvent based inks

## TIGER TIGITAL® Inks for single pass and multi-scanning inkjet printers

**UV Glass Ink** for direct printing on glass under dry and wet conditions

**UV LED Outdoor Ink** with outstanding UV stability more than 8 years without top coat

**UV Direct-to-Metal Ink** with excellent adhesion to metals, glass and melamine without any pretreatment

**UV Universal Ink** for a broad range of different substrates, e.g. paper, cardboards, plastic films (PE, PET, PC, PP, etc.), aluminum, metals, acrylic glass

**UV Décor Paper Ink** for the wood fiberboard industry (MDF) for décor printing of floor panels or furniture

**UV Thermo-formable Ink** which sustains thermoforming/ stretching processes of plastic film and high temperature without cracking or stress whitening Water-based Paperboard, Latex or Hybrid Inks compliant with the Swiss Ordinance A and B Lists, hence suitable for food packaging and for a wide range of different substrates

**Solvent-based Heavy Duty Glass Ink** using inorganic pigments for highest temperature and chemical resistance



Digital printed concrete

©Photograpy | CTG

## Contact:

Business unit TIGITAL® [tigital@tiger-coatings.com](mailto:tigital@tiger-coatings.com)