



# INDUSTRIAL WOOD COATINGS

**USED FOR**  
MDF Printing Lines  
Chipboard Printing Lines  
Direct Printed Laminates on HDF Printing Lines  
Rigid PVC Printing Lines  
Furniture Foils Printing Lines  
Glass Coating Lines

**Frimpeks  
Head Office**

Ahi Evran Cad. Polaris Plaza  
No:21 Kat:12 Maslak,  
34485 Istanbul/Turkey

T +90 212 867 1000

**Frimpeks Inc.**

211 Mt. Prospect Ave  
Unit B-1  
Clifton, NJ 07013

T +1 201 266 0116

**Frimpeks  
Chemical Production Plant**

Haciseremet Mevkii Sanayi Bölgesi  
Baraj Yolu 4/93 No.:53, Velimese  
59850 Tekirdag / Turkey

T +90 282 674 5200

[frimpeks.com](http://frimpeks.com)  
[uv@frimpeks.com](mailto:uv@frimpeks.com)

**Frimpeks  
Label Production Plant**

Mermerciler Sanayi Sitesi,  
8. Cad. No:15 Beylikdüzü,  
34524 Istanbul / Turkey

T +90 212 867 1000

**Frimpeks Rus LLC**

42 Schosse Neftanikov Str.  
Krasnodar, Russia  
350051

T +7 861 215 9717

**Frimpeks UK**

Unit 21  
Carlton Park Industrial Estate  
Saxmundham, Suffolk, IP17 2NL

T +44 1728 440590



# INDUSTRIAL WOOD COATINGS OVERVIEW

## → PDL-Flooring Products

- UV Sealers
- UV Corundum for abrasion resistance (AC 1 – AC 4)
- UV Topcoats (Matt, Semi Matt, Glossy and High Gloss)
- UV Registered Haptical Pore Effect Coatings
- UV Optical Pore Effect Coatings
- UV Embossing Topcoats
- Water Based Primers
- Water Based Fillers
- Water Based Basecoats
- Water Based Inks
- Water Based and UV Backside Coatings

## → PDL-Backing Products

- Water Based Primers
- Water Based Fillers
- Water Based Basecoats
- Water Based Inks
- UV Topcoats (Matt, Semi Matt, Glossy and High Gloss)

## → PDL-Furniture Products

- Water Based and UV Primers
- Water Based and UV Fillers
- Water Based Basecoats
- Water Based Inks
- UV Sealers
- UV Topcoats (Matt, Semi Matt, Glossy and High Gloss)

## → Doorskin Primer Products

- Water Based Primer 1st layer
- Water Based Primer 2nd layer (with AMM properties)
- Water Based Primer 2nd layer (without AMM properties)

## → UV Melamine High-Gloss Products

- UV Primers
- UV Basecoats
- UV Inks
- UV Sealers
- UV Curtain Topcoats
- UV Laser Topcoats

## → Pre-Finished Parquet Products

- PU-UV Primers
- Water Based Paints
- UV Primers
- UV Paints
- UV Fillers
- UV Sealers
- UV Topcoat (10–90°)

## → PVC Edgebending Products

- UV Inks (all colours)
- UV Topcoat (High-Gloss)
- UV Topcoat (Mat)
- UV Topcoat (Zero Mat)
- UV Topcoat (3D)

## → PVC Rigid Coating Products

- UV Inks (all colours)
- Water Based Inks (all colours)
- UV Topcoat (High-Gloss)
- UV Topcoat (Mat)
- UV Topcoat (Zero Mat)
- UV Topcoat (3D)

## → UV Glass Coating Products

- UV Basecoat White
- Solvent Based Primer

## → UV Furniture Spray Coating Products

- UV Primers
- UV Sealers (different colours)
- UV Topcoats High-Gloss (different colours)
- UV Topcoats Mat (different colours)

## → PU-UV Doorskin Topcoat Products

- PU-UV Sealer (available in various colours)
- PU-UV Topcoat (available in various colours and Gloss Levels)

## → Water Based Spray for Doors and Furniture

- Water Based Spray Primer
- Water Based Spray Topcoat

# PDL FLOORING

PDL-Flooring is an alternative Technology to DPL-Flooring (Direct Pressed Laminate)

PDL-Flooring Technology saves one step of the production process as seen on the following comparison:

PDL-Flooring	DPL-Flooring
Purchase of Coating (Base-coat colors are able to be re-colormatched to other colors)	Purchase of Décor Paper (only big quantities possible)
Application of Coating on HDF Cutting and Profiling	Impregnation of Décor Paper Melamine Press on HDF Cutting and Profiling

## Our PDL-Flooring Products

UV Sealers  
 UV Corundum for abrasion resistance (AC 1 – AC 4)  
 UV Topcoats (Matt, Semi Matt, Glossy and High Gloss)  
 UV Registered Haptical Pore Effect Coatings  
 UV Optical Pore Effect Coatings  
 UV Embossing Topcoats

Water Based Primers  
 Water Based Fillers  
 Water Based Basecoats  
 Water Based Inks  
 Water Based and UV Backside Coatings



## BENEFITS OF PDL FLOORING

- Possibility to produce abrasion resistances from AC 1 to AC 4 after needs for home or office usage.
- PDL-Technology grants less noise in comparison to DPL-Technology during the use at home or office.
- With DPL-Technology, the purchase of Decor Paper is only in big quantities possible, if the market does not accept a new decor, so the rest of the decor paper will be wasted. With the PDL-Technology, it is possible to re-colormatch a WB Base-coat to other colors after needs.
- PDL-Technology gives the possibility for very high production capacities (up to 80.000 m<sup>2</sup>/day with only one Coating Line), which gives the customer the possibility to save warehouse costs.
- PDL-Technology gives the possibility to change gloss levels within a few minutes with no relevant changes on the machinery. With the DPL-Technology, the customers need to change the Press Plate.
- DPL-Floorings has also an impregnated paper with a relatively high cost on the bottom of the flooring against bending of the Flooring due to its tension on the surface; with PDL-Technology, you need only a small amount of Water-based Coating against moisture and insects.
- Water-based and UV Coatings of the PDL-Technology are free of carcinogenic substances.
- In total the Coating Costs of the PDL-Technology is lower than the costs of the DPL-Technology (Impregnated Decor Paper with Overlay for the upper site and the Impregnated Paper for the Bottom of the Flooring).





## PDL-BACKINGS

PDL-Backings Technology is used mostly by big MDF and Chipboard producers, in order to coat the products with low production costs

### DPL-Backing

Purchase of Décor Paper  
(only big quantities possible)  
Impregnation of Décor Paper  
Melamine Press on MDF or Chipboard  
Cutting and Profiling

### PDL-Backing

Purchase of Coating  
(Basecoat colours are able to be re-colourmatched to other colours)  
Applying of Coating on MDF or Chipboard  
Cutting and Profiling

Easy Production process

Low cost Product in comparison to Melamine Surfaces

Higher Quality in comparison to Finish Foil surfaces

High Production capacities (~ 80.000 m<sup>2</sup> / day on only one Coating Line)

Higher durability in comparison to Finish Foil surfaces

Same level of durability with Melamine surfaces, with lower costs of finishing

The products are ready to pack directly after coating of the surface

### Our PDL-Backing Products

Water Based Primers

Water Based Fillers

Water Based Basecoats

Water Based Inks

UV Topcoats (Matt, Semi Matt, Glossy and High Gloss)



# PDL FURNITURE

PDL-Furniture Technology is used by big furniture producers, in order to coat the products after cutting and profiling

## DPL-Furniture

Purchase of Décor Paper  
(only big quantities possible)  
Impregnation of Décor Paper  
Melamine Press on MDF or Chipboard  
Cutting and Profiling

## PDL-Furniture

Purchase of Coating  
(Basecoat colors are able to  
re-coloumatched to other colors)  
Applying of Coating on MDF or Chipboard  
Cutting and Profiling

## PDL-Furniture Properties

- No dependence to MDF and Chipboard Suppliers in case of Decor choice
- Lower MDF and Chipboard warehouse costs
- The furniture producer needs only to buy one type of raw MDF and raw Chipboard
- Higher amounts are needed, if different Melamine Decors are purchased
- Ability to produce the same color for Front – Panels and Back – Panels on one Coating Line
- Higher durability in comparison to Finish Foil surfaces
- Same level of durability with Melamine surfaces, with lower costs of finishing
- The products are ready to pack directly after coating of the surface

## Our PDL-Furniture Products

Water Based and UV Primers  
Water Based and UV Fillers  
Water Based Basecoats  
Water Based Inks  
UV Sealers  
UV Topcoats (Matt, Semi Matt, Glossy and High Gloss)



# DOORSKIN PRIMER

We are producing Waterbased Doorskin Primers for industrial applications

We ensure AMM (Anti Mineral Marking) with our products

Low cost product without AMM property is also available

The overcoating of our products are possible with 2K

Polyurethane Coatings and PU-UV Coatings which are also produced by Frimpeks

## **Doorskin Primer Properties**

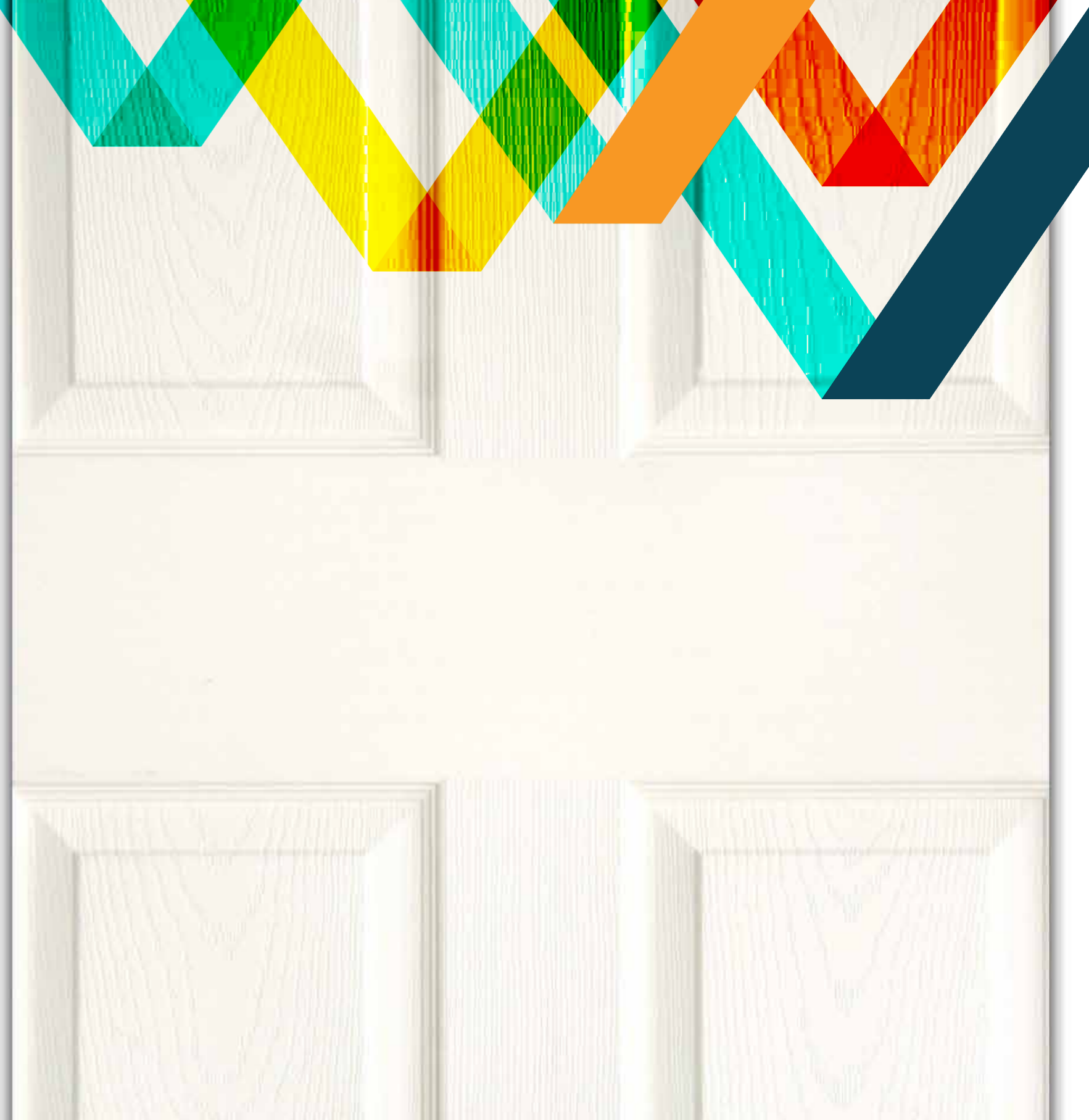
Good Adhesion on MDF  
Anti Mineral Marking  
Good Opacity  
Overcoatable  
Good Water Resistance

## **Our Doorskin Primer Products**

Water Based Primer 1st layer

Water Based Primer 2nd layer (with AMM properties)

Water Based Primer 2nd layer (without AMM properties)



# WATER BASED DOORSKIN AND FURNITURE SPRAY COATINGS

An alternative product for Solvent Based Spray systems, which are used mainly in the market today.

The risk of fire will be solved

Ecological properties are much better than solvent

## Water Based Doorskin and Furniture Spray Coatings Properties

- Excellent Adhesion on Waterbased Doorskin Primer
- Good Scratch Resistance
- Good Opacity
- No Isocyanate Usage
- No Additional Cost for Solvent
- No Yellowing in Comparison to Solvent Based Systems
- Available in Various Colors

## Water Based Spray for Doors and Furniture

- Water Based Spray Primer
- Water Based Spray Topcoat



# UV COATED MELAMINE HIGH-GLOSS

Frimpeks is able to coat Melamine surfaces with a 100% UV System  
Below Coating technologies are available at Frimpeks for this purpose

## Melamine High-Gloss by Curtain Coating

- UV Primer
- UV Sealer for bright colors  
(best sanding properties)
- UV Sealer for dark colors  
(no haziness for dark colors)
- UV Curtain Topcoat Clear  
(90 – 95 Gloss at 60° / Light stable)
- UV Curtain Topcoat Pigmented  
(90 – 95 Gloss at 60° / Light stable)

## Melamine High-Gloss by Laser Roller

- UV Primer
- UV Sealer for bright colors  
(best sanding properties)
- UV Sealer for dark colors  
(no haziness for dark colors)
- UV Laser Topcoat Clear  
(90 – 95 Gloss at 60° / Light stable)
- UV Laser Topcoat Pigmented  
(90 – 95 Gloss at 60° / Light stable)

We are able to develop new products due to the machine technology and needs of the customers

New technologies like Excimer for Super Matt Soft-Touch effect are also already developed  
to be able to create possibilities for new products on the High-Gloss lines of our customers

## Our UV Melamine High-Gloss Products

- UV Primers
- UV Basecoats
- UV Inks
- UV Sealers
- UV Curtain Topcoats
- UV Laser Topcoats







## PRE-FINISHED PARQUET

Pre-Finished Parquet is always a choice for natural flooring as well for home or office usage

Frimpeks is able to produce various qualities of coatings for such an application

### **Pre-Finished Parquet Properties**

- Perfect adhesion and staining with PU-UV Primers
- Perfect Filling Properties with UV Fillers
- Possibility to achieve AC 1 to AC 4 with UV Alox
- Perfect sanding and levelling properties with UV Sealer
- Perfect scratch resistance with several UV Topcoats
- Several Gloss Levels from 10 – 95°

Possibility to produce abrasion resistances from AC 1 to AC 4 after needs for home or office usage

Pre-Finished Parquet has a much more natural effect

Various coloring is available

### **Our Pre-Finished Parquet Products**

PU-UV Primers  
Water Based Paints  
UV Primers  
UV Paints  
UV Fillers  
UV Sealers  
UV Topcoat (10–90°)



## **PVC EDGE BENDING**

Frimpeks is serving the Edgebending producers since years with success

We are able to provide our customers with UV Inks and UV Topcoats with High-Quality

With our UV Inks, the customers will be able to produce their wood designs without any addition of solvents to the ink

### **PVC Edgebending Properties**

High Resistance against Light  
High Resistance against Weathering  
High Adhesion Properties  
High Scratch Resistance  
High Solvent Resistance  
No Solvent Addition to the UV Ink

### **Our PVC Edgebending Products**

UV Inks (all colours)  
UV Topcoat (High-Gloss)  
UV Topcoat (Mat)  
UV Topcoat (Zero Mat)  
UV Topcoat (3D)



# PVC RIGID COATINGS

UV Inks and UV Coatings for Rigid PVC is available at Frimpeks for a high quality Finishing

Due to market needs, we are able to serve the customers with low cost products or High-Quality Products

With our UV Inks, the customers will be able to produce their wood designs without any addition of solvents to the ink

Frimpeks is also able to produce Waterborne Inks for PVC Rigid products

## **PVC Rigid Coating Properties**

High Resistance against Light  
High Resistance against Weathering  
High Adhesion Properties  
High Scratch Resistance  
No Solvent Addition to the UV Ink

## **Our PVC Rigid Coating Products**

UV Inks (all colours)  
Water-based Inks (all colours)  
UV Topcoat (High-Gloss)  
UV Topcoat (Mat)  
UV Topcoat (Zero Mat)  
UV Topcoat (3D)





## UV GLASS COATINGS

Frimpeks is producing UV White Coatings as a basecoat for Digital Printing on Glass

The White Basecoat for Glass has an enormous impact on the effect of the Digital Printing to the surface

### UV Glass Coatings Properties

- High Resistance against Silicon Adhesives
- High Water Resistance
- High Scratch Resistance
- Good Chemical Resistance
- High Opacity

### Our UV Glass Coatings Products

- UV Basecoat White
- Solvent Based Primer



# UV SPRAY COATINGS FOR FURNITURE

UV Spray Coatings for the furniture application is a new development of Frimpeks

UV Spray Coatings are generally used for uneven surfaces, where Roller Coater applications are not possible

The usage of UV Coatings against Solventborne 2K products is much more healthy

One of the biggest advantage of UV Coatings are, to be able to further processed immediately after curing within a second if needed UV Energy is available

Solventborne 2K products needs a long time to cure and further processed

## UV Coatings

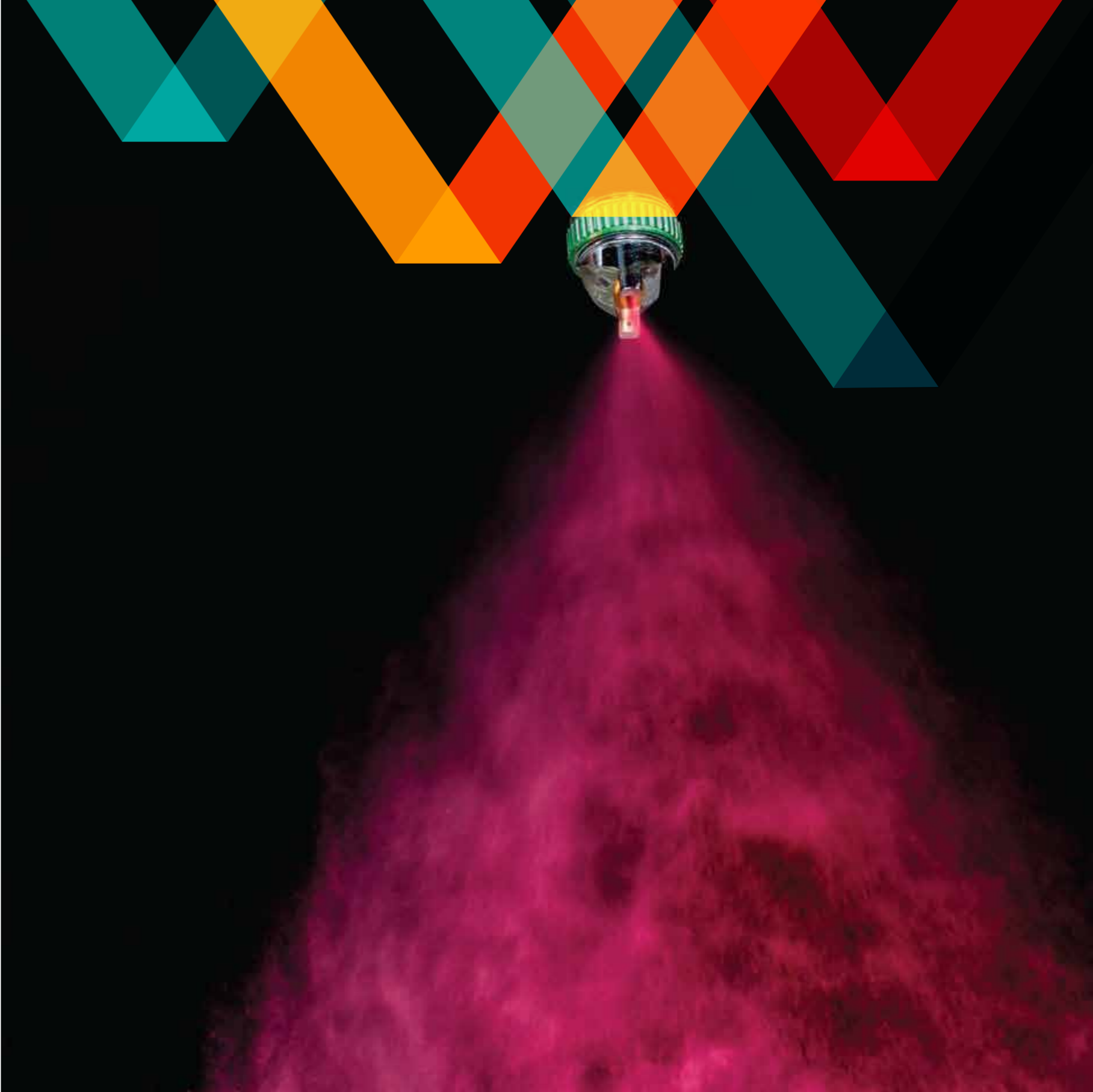
Cured immediately after needed UV Energy  
Stackable directly after application and curing within seconds  
Sandable directly after application and curing within seconds  
No Isocyanate needed  
No addition beside of Solvent for Viscosity adjustment

## Solventborne 2K Coatings

Needs curing times up to 24 hours for curing  
Stackable after the curing time of appr. 24 hours, which causes to big stock area  
Sandable after the curing time of appr. 24 hours  
Isocyanate is needed, which has a pot life  
Risk to forget the addition of Isocyanate can cause to big time and money losts

## Our UV Furniture Spray Coating Products

UV Primers  
UV Sealers (different colours)  
UV Topcoats High-Gloss (different colours)  
UV Topcoats Mat (different colours)



## **PU-UV DOORSKIN TOPCOAT**

New Project of Frimpeks is to Finish Doors by PU-UV Topcoats industrially

Suitable for all Doorskin Primer Spray Lines with only addition of UV Lamps

Low cost in comparison to manually applied Topcoats by carpenters at the construction side

### **PU – UV Doorskin Topcoat Properties**

Excellent Adhesion on Waterbased Doorskin Primer  
Good Scratch Resistance  
Good Opacity  
Good Chemical Resistance  
Good Water Resistance  
No Isocyanate Usage  
Immediately Stackable  
Available in Various Colours

### **Our PU-UV Doorskin Topcoat Products**

PU-UV Sealer (available in various colours)

PU-UV Topcoat (available in various colours and Gloss Levels)



**CONTINUATION  
IN QUALITY**



**≧ CONTINUATION  
IN QUALITY**

**R&D  
Lab**

