

The ZOBEL Profile

As a globally active owner-operated family enterprise, ZOBEL can look back on more than six decades of coating experience



» It is the people that make up a company. «



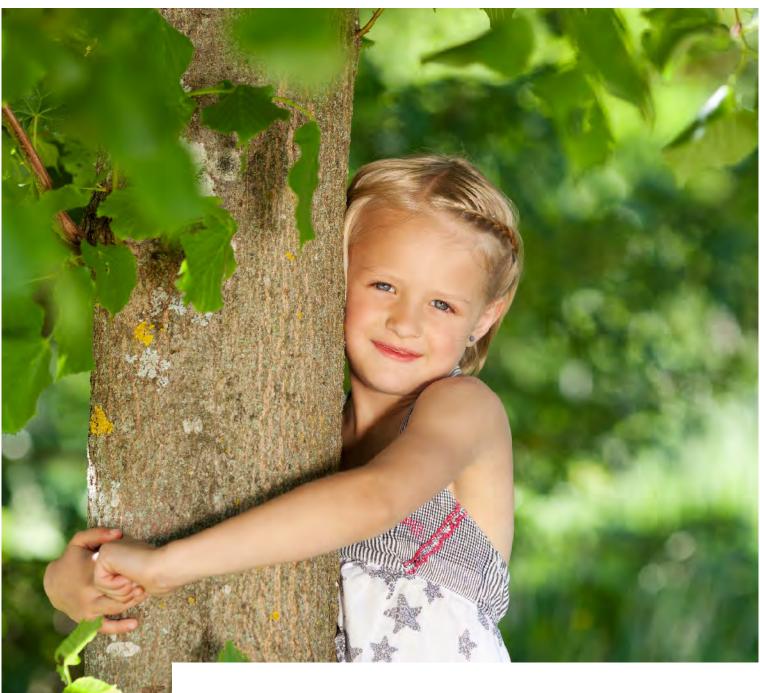
With headquarters in the heart of Germany, ZOBEL develops, produces and sells premium coatings and glazes for substrates such as wood and PVC. Our target group ranges from the classical window and door manufacturer to the industrial contract painter and substrate producer. Both international and national distributors and processors trust in ZOBEL in more than 50 countries across the globe.

- three generations of coating experience
- independent
- fast and close to the customer
- free for long-range targeted product innovations
- with R&D which already has tomorrow's solutions today
- extensive and tight product line
- proven in extreme climate zones
- fast customer-oriented problem solutions
- process-oriented and cost-effective coating processes
- strong guarantees



ZOBEL Green Commitment

Operate »green« for sustainable building





- water-based products made from environmentally-friendly materials
- minimum VOC content
- physiologically harmless coatings and glazes
- energy-saving ZOBEL ANTI-HEAT concept
- premium durable products
- no heavy metals

- compliance with all legal requirements such as Decopaint, REACH, BPR
- products without hazardous substances or hazardous material classifications
- compliance with the emission limit values for a healthy room climate
- process-optimized products for materialsaving coating systems
- green production with certified energy efficiency

ZOBEL Product Lines

Zowo-tec®

Water-based coatings for dimensionally stable wooden building components – windows, doors



[Z] Deco-tec®

Water-based coatings for **not dimensionally stable wooden building components** in- and outdoors



Zowo-plast®

Water-based coatings for PVC in- and outdoors





ZOBEL ANTI-HEAT

As an option applying to all product lines: Temperature-limited color tones for cool surfaces

Zowo-tec®

Your partner for dimensionally stable wooden building components in top form







Zowo-tec® Steps of Coating

		Glazing S	Steps of C	oating						
Type of Wood	Fir, Meranti, Oak, Pine, Spruce				Larch		Fir, Mera Pine, Spr			
Field of Application	Premium		Premium process-op	timized	Flow-coat process-o	ing ptimized	Premium	1	Premium Front do	
Impregnation	Zowo-tec ^o								Zowo-tec 106	
Primer	Zowo-tec ⁶ 200		Zowo-tec® 203		Zowo-tec® 203		Zowo-teo 200		Zowo-tec 200	
Intermediate Coat	Zowo-tec ^o 420	B > 1	Zowo-tec® 4	-20 >-	Zowo-tec® 320		Zowo-ted 340	**************************************	Zowo-tec 444	® >
Top Coat	Zowo-tec ⁶ 420	B	Zowo-tec® 4	20	Zowo-tec®	420	Zowo-tec 420	**************************************	Zowo-tec 444	® >1,T
		Super tra	ansparent	: / coloi	less Ste	ns of Co	pating			
Steps of Coating	Super transparent / colorless Steps of Coating Steps of Coating super transparent colorless for Wood-Aluminum									
Type of Wood	Fir, Meranti, Oak, Pine, Spruce		Fir, Meranti, Oak, Pine, Spruce			Larch				
Field of Application	Premium		Premium		Premium process-optimiz		optimized	ed Premium		
Impregnation	Zowo-tec® 106		Zowo-tec® Zowo-tec® 106							
Primer	Zowo-tec ^o 200		Zowo-tec® 200		Zowo-tec® 200				Zowo-tec [©] 200	
Intermediate Coat	Zowo-tec® 421 Zowo-tec® 340		140 >	Zowo-tec® 430			Zowo-tec [©]	340 →		
Top Coat	Zowo-tec ⁶	® 421 > F	Zowo-tec® 4	21	Zowo-tec®	430 → 1	Zowo-ted	e® 430 > ₩	Zowo-tec	[®] 430 →
White and colored opaque Steps of Coating										
Туре о			Meranti, Oak				Meranti, Oa	ak, I	Fir, MDF, M Oak, Pine, S	eranti, Spruce
		Premiur process					Premium front doors			
Impre	gnation	Zowo-tec [®] 106							Zowo-tec® 106	
	Primer	Zowo-tec® 260		Zowo-te 263	c® ₩₩	Zowo 263	o-tec®		Zowo-tec® 260	
Intermedia	te Coat	Zowo-tec® :	360 →	Zowo-te	c® 360	Zowo 320	o-tec® 🐔		Zowo-tec® 3	384
To	op Coat	Zowo-tec® 4	480	Zowo-te	c [®] 480	Zow	o-tec® 480	———	Zowo-tec® 4	184

Zowo-tec® Impregnations

Zowo-tec® 106

Protective Wood Impregnation













Zowo-tec® Glazing Coatings

Primer Zowo-tec® 200

Glazing Primer







even spreading for uniform paint distribution

low odor, particularly suited for flow-coat systems

- saves on costly touch-up work
- integrated in the ZOBEL color mixing system

Zowo-tec® 203 Protective Primer, glazing







- impregnation and primer in one
- saves on material and labor costs
- even spreading for uniform paint distribution
- for preventive protection against blue stain, wood-destroying fungi and insects
- integrated in the ZOBEL color mixing system

Intermediate Coat

Zowo-tec® 320 Intermediate Flow Coat insulating, colorless







for process-optimized work

- can be used for glazing and opaque steps of coating
- insulating effect against water-soluble discoloring wood constituents
- minimization of discoloring caused by resins

Zowo-tec® 340 Intermediate Coating for Larch, colorless



for perfect larch surfaces

prevents disturbing film formation of the top coat caused by resin

for glazing and colorless steps of coating

Top Coat

Zowo-tec® 420 Thick-layered Glaze



- outstanding transparency and brilliant color
- elegant coated surface while emphasizing the natural wood grain
- integrated in the ZOBEL color mixing system

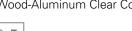
Zowo-tec® 421 Glaze UV+, colorless



- with HighEnd UV protection
- combined with colored primer as a colorless intermediate and top coat for outdoors
- highest transparency and most brilliant color accentuation
- integrated in the ZOBEL color mixing system

Zowo-tec® 430

Wood-Aluminum Clear Coat



- the wood surface appearance ranges from naturally coarse to elegantly smooth
- silk matt formulation to maintain the natural character of the wood surface
- highly transparent surface finish
- coloring possible using primer

Zowo-tec® 444 1C-PUR Glaze for Doors

- polyurethane basis for extra scratch and abrasion resistance
- elegant coated surface while emphasizing the natural wood grain
- outstanding transparency and brilliant color
- integrated in the ZOBEL color mixing system





Zowo-tec® Opaque Coatings

Primer

Zowo-tec® 260 Insulating Primer white, opaque







- insulating action against water-soluble constituents of hard and coniferous wood
- high solid for high covering properties
- easy grindability
- ready to use

Zowo-tec® 263

Insulating protective Primer white, opaque







- impregnation and priming in one
- saves on material and labor costs
- for preventive protection against blue stain, wood-destroying fungi and insects
- insulating action against water-soluble constituents of hard and coniferous wood
- high solid for high covering properties
- easy grindability
- ready to use

Intermediate Coat

Zowo-tec® 320

Intermediate Flow Coat insulating, colorless







- for process-optimized work
- acan be used for glazing and opaque steps of coating
- insulating effect against water-soluble discoloring wood constituents
- minimization of discoloring caused by resins

Zowo-tec® 360 Intermediate Coat

insulating, white, opaque



- insulation of resinous woods
- prevents disturbing film formation of the top coat and minimizes the risk of discoloration
- stops discoloring water-soluble constituents of wood

Zowo-tec® 384

Intermediate Coat insulating, white, opaque



- insulating effect against discoloring wood constituents
- excellent filling capacity outstanding grindability
- specially suited for MDF

Top Coat

Zowo-tec® 480

Top Coat white, RAL 9016



- high solid for fast layer formation and high covering properties
- excellent spreading for elegant coated surfaces
- preserves the natural wood grain

Zowo-tec® 480

Colored opaque Lacquer



- high solid for fast layer formation and high covering properties
- excellent spreading for elegant coated surfaces
- preserves the natural wood grain
- integrated in the ZOBEL color mixing system

Zowo-tec® 484

1C-PUR Colored Top Coat for Doors

- polyurethane basis for extra scratch and abrasion resistance
- elegant coated surface while emphasizing the natural wood grain
- integrated in the ZOBEL color mixing system



Zowo-tec® Specialties for an expanded range of tasks



Zowo-tec® Specialties

Impregnation

Zowo-tec® 245 Transparent Wood Binder







- reduces the sanding required in the overall system
- simplifies sanding by means of fiber fixation
- to achieve an extremely smooth wood surface
- leveling in terms of more uniform coloring of the subsequent primer
- for preventive protection against blue stain and insects
- fast-drying

Intermediate Coat opaque

Zowo-tec® 380 Intermediate Coat, metallic

- uniform and intense metallic effect
- in combination with Zowo-tec® 441 Finish-Coat to protect the metallic pigments
- integrated in the ZOBEL color mixing system



Zowo-tec® 431 Wood-Aluminum Middle Layer Varnish*

*

- for the most natural character possible of wood aluminum components
- outstanding transparency
- coloring possible using primer
- silk matt formulation
- colorless
- * does not achieve the minimum 60 $\mu m\,$ dry-film thickness on visible surfaces recommended by VFF Directive HM.01

Zowo-tec® 441 Finish-Coat

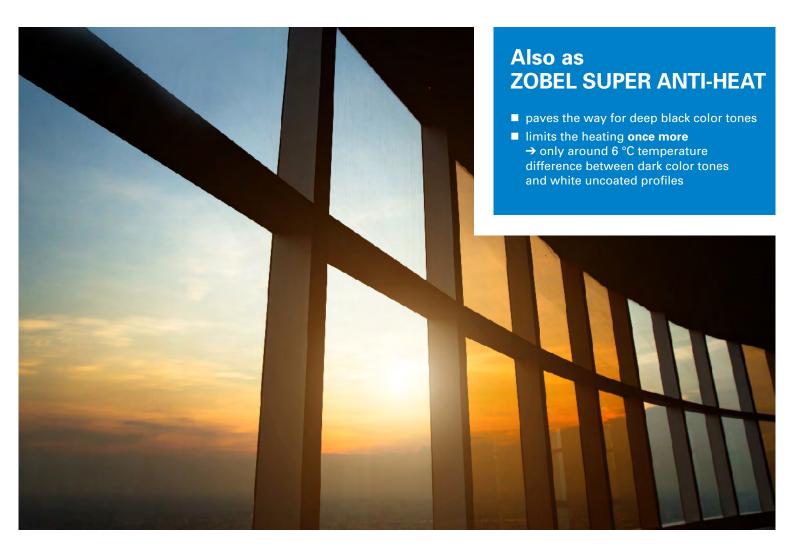
- colorless protective coating for Zowo-tec® 380 Intermediate Coat, metallic
- HighEnd UV protection
- high transparency and deep gloss for accentuation of the metallic intermediate coat
- semi-gloss formulation



ZOBEL ANTI-HEAT

Coatings for cool surfaces and more durability – to preserve value and protect the environment

The minimum temperature charging of ZOBEL's PVC and wood coatings will convince you. Achieve cool surfaces on the entire range of building components.





Your benefits:

- more protection for the component by up to 30 °C lower surface heating
- dark color shades can also be realized without hesitation
- higher dimensional stability less risk of crack formation or warping
- less resin flow
- higher longevity and sustainability of component and coating
- pleasant room atmosphere with lower cooling requirements

[Z] Deco-tec®

Full protection for not dimensionally stable wooden building components





[Z] Deco-tec® coatings and glazes

- environmentally-friendly, water-based
- single-component formula for easy processing
- permeable: the wood can "breath", resulting in quick regulation of the wood's moisture
- water repellent
- highly elastic, adapts to all of the wood's shrinking and swelling movements
- extremely weather resistant: lasting protection for glazed color tones of up to 7 years, opaque color tones up to 12 years

[Z] Deco-tec®: the right product for every application							
Field of Application	glazing		opaque				
Product	[Z] Deco-tec® 5410 Dip Glaze	[Z] Deco-tec® 5420 Weather Protec- tion Glaze	[Z] Deco-tec® 5425 Terrace Mainte- nance	[Z] Deco-tec® 5430 Spray Glaze	[Z] Deco-tec® 5450 Weather Protec- tion Color	[Z] Deco-tec® 5480 Spray Coating	
Application of the Top Coat							
Steps of Coating							
Impregnation	([Z] Deco-tec® 5100)*	([Z] Deco-tec® 5100)*	([Z] Deco-tec® 5100)*	([Z]Deco-tec® 5100)*	([Z] Deco-tec® 5100)*	([Z] Deco-tec® 5100)*	
Primer				[Z] Deco-tec® 5230	([Z] Deco-tec® 5280)*	[Z] Deco-tec® 5280	
Intermediate Coat				([Z] Deco-tec® 5330)*		[Z] Deco-tec® 5380	
Top Coat	[Z] Deco-tec® 5410 (2 – 3x)	[Z] Deco-tec® 5420 (2 – 3x)	[Z] Deco-tec® 5425 (2x)	[Z] Deco-tec® 5430 (2x)	[Z] Deco-tec® 5450 (2x)	[Z]Deco-tec® 5480	
Application							
Balcony Planks	++	++	<u> </u>	++	++	++	
Blockhouses	+	+ +		+ +	++	++	
Carports	+	+ +		+ +	++	++	
Roof Soffits	++	+ +		+ +	++	++	
Facades	+	+ +		+ +	+ +	++	
Garden Sheds	++	+ +		+ +	+ +	++	
Garden Furniture							
Window Shutters		+		+ +		++	
Playground Equipment	++		+				
Terrace Decks			+ +				
Fences	++	+ +		+ +	++	++	

^{*}if necessary

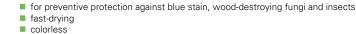
⁺ recommended

⁺⁺ expecially recommended

[Z] Deco-tec® for not dimensionally stable wooden building components

[Z] Deco-tec® Impregnations

[**Z**] **Deco-tec**[®] 5100 Impregnation







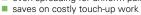


[Z] Deco-tec® Glazing Coatings

[**Z**] Deco-tec® 5230



Glazing Primer



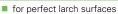




integrated in the ZOBEL color mixing system

Intermediate Coat

[Z] Deco-tec® 5330 Intermediate Coat colorless



prevents disturbing film formation of the top coat caused by resin



Top Coat

Primer

[Z] Deco-tec® 5410

Dip Glaze





thin-layered glaze

■ coating build-up with just one product → for easy logistics

■ integrated in the ZOBEL color mixing system

[Z] Deco-tec® 5420

Weather Protection Glaze, early block-resistant



thin-layered glaze

- coating build-up with just one product → for easy logistics
- early block-resistance → saves time due to early stacking capacity
- drip-reduced formulation for easy and safe brush application
- integrated in the ZOBEL color mixing system

[Z] Deco-tec® 5425 Terrace Maintenance, glazing

- refreshes the color tone and protects against graying strengthens the wood structure and protects against fraying
- does not form layers; the wood remains "walkable"
- early block-resistance → saves time due to early stacking capacity
- integrated in the ZOBEL color mixing system



[Z] Deco-tec® 5430

Spray Glaze

perfect gloss retention

coloring in combination with [Z] Deco-tec® 5230 Glazing Primer

■ integrated in the ZOBEL color mixing system

[Z] Deco-tec® Opaque Coatings

Primer

Top Coat

[**Z**] Deco-tec® 5280 Insulating Primer, white,







■ insulating action against water-soluble constituents of hard and coniferous wood

high solid for high covering properties

easy grindability

ready to use

Intermediate Coat

[Z] Deco-tec® 5380 Intermediate Coat insulating, white opaque

insulation of resinous woods

prevents disturbing film formation of the top coat and minimizes the risk of discoloration



[Z] Deco-tec® 5450

Weather Protection Color

- high solid content for good opacity and fast layering
- coating build-up with just one product → for easy logistics
- early block-resistance → saves time due to early stacking capacity
- silk matt formulation
- integrated in the ZOBEL color mixing system

[**Z**] **Deco-tec**® 5480

- high solid content for good opacity and fast layering perfect gloss retention
- Spray Coating
- color tones available ex factory



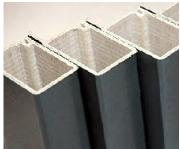




Zowo-plast®

Individual color tone diversity for PVC





Zowo-plast® stands for single-layered coatings

	Zowo-plast® Steps	s of Coating		
Color, Structure and Effect	Solid color tones	Solid Color Tones, textured	Metallic Color Tones	Metallic Color Tones, textured
Pretreatment	Zowo-plast® 1120 Hydro-Cleaner			
Coating	Zowo-plast® 1450 1C-PUR PVC-Single-Layer Coating	Zowo-plast® 1490 1C-PUR PVC-Single-Layer- Textured Coating	Zowo-plast® 1480 1C-PUR PVC Metallic- Single-Layer Coating	Zowo-plast® 1491 1C PUR PVC-Metallic-Single- Layer-Textured Coating

Zowo-plast® for PVC

Zowo-plast®

Also take advantage of the diverse benefits of coating compared to alternative coloring methods

Method	Extrusion / Coextrusion	Foliation	Aluminum Cover	Coating
Color Tone and Effect Selection	limited			unlimited
You can perform the Coloring Process yourself	profile manufactur- ers only	profile manufa major window turers only		easy to realize also for small window manufacturers
Flexibility of Window Manufacturers making additional Purchases	low → delivery times, limited color selection, availability			high → feasible starting from batch size 1
Price	high → high investment, energy, warehousing and material costs, long setup times, high start-up losses			low → low investment, energy, warehousing & material costs, short setup times, low start-up losses

» Zowo-plast® provides a performance package not offered by any other supplier. «



Zowo-plast® offers:

- coating of hanging and lying objects→ applicable to both, profiles and windows
- high layer build-up in one step
- just one base coat for every color tone
- one product for all kinds of applications (handicraft to industrial)
- completely water-based system including cleaner
 - → no brittleness caused by solvents, no hazardous substances
 - → logistic benefits

- proven in extreme climate zones, including Australia, Mexico, the Middle East, Siberia, USA
- easy to clean
- can be easily painted over
- ZOBEL ANTI-HEAT for dimensionally stable building components
- cost and flexibility benefits compared to alternative coloring methods
- tested safety

Coating with Zowo-plast®

could not be easier

Single-layer coating for solid and metallic color tones



- fast and excellent adhesion
- good flow
- high scratch resistance
- high elasticity
- outstanding hardness and excellent abrasion resistance
- excellent weather resistance
- excellent covering properties
- resistance against household chemicals
- low consumption easy and time-saving processing

Zowo-plast® Product Overview

Cleaner

Zowo-plast® 1120

Hydro-Cleaner

- water-based, biodegradable cleaner
- ideal surface pretreatment before coating with Zowo-plast®
- excellent cleaning power
- improves adhesion and is anti-static

Solid Color Tones

Zowo-plast® 1450 1C-PUR PVC-Single-Layer









extensive range of solid color tones polyurethane system for highest resistance

one base for all color tones

■ integrated in the ZOBEL color mixing system

Zowo-plast® 1490

Coating







- 1C-PUR PVC-Single-Layer-Textured
- polyurethane system for highest resistance available with fine or coarse texture

extensive range of color tones with relief-type texture

■ integrated in the ZOBEL color mixing system

Metallic Color Tones

Zowo-plast® 1480

1C-PUR PVC-Metallic-Single-Layer



- extensive range of color tones with brilliant, plastic metallic effect
- polyurethane system for highest resistance
- one base for all color tones
- integrated in the ZOBEL color mixing system

Zowo-plast® 1491

1C-PUR PVC-Metallic-Single-Layer-Textured Coating



- extensive range of solid color tones with brilliant metallic effect and fine relieftype texture
- polyurethane system for highest resistance
- one base for all color tones
- integrated in the ZOBEL color mixing system

Zowo-plast® for PVC

Zowo-plast® 1C PVC-Single-Layer Coating Generation 2.0

Already today we are implementing tomorrow's technology

The development of an NMP-free second generation of the Zowo-plast® coating system – Generation 2.0 – was sponsored by the German Federal Ministry for the Environment, Nature Conservation and Nuclear Safety as part of the climate protection initiative.

Please feel free feel free

Gefordert durch:







ZOBEL Color Mixing System

for unlimited color tone availability

The concept

using ZOBEL tinting pastes to color a base coating

Your benefits:

- fast uncomplicated mixing of color tones
- no dependence on delivery times
- color tones can be reproduced at all times
- short mixing times
- reduced inventories

This means for you

- highest readiness to deliver
- optimized project handling
- processing security
- reduced costs





automatic paste dosing following computerized formula selection

Additional ZOBEL Products

for moisture protection, preservation of value and care

Equipment Cleaning

ZOBEL Zowo-Clean Hydrocleaner / Equipment

- for the cleaning of application equipment contaminated by water-based coatings and glazes
- water-based with added solvent
- colorless

Substrate Pretreatment, Moisture Protection, special Problem Solver

ZOBEL Acrylic Filler

- for indoor wooden components and dimensionally stable outdoor wooden components
- does not crack at wet-film layers up to 1mm
- wet-on-wet application possible
- high filling capacity
- fast-drying
- easy to sand

ZOBEL Zowo-Seal Protection for V-Joints, transparent

- can be quickly painted over with ZOBEL Zowo-tec® and [Z] Deco-tec® products
- smooth consistancy for easy insertion into the v-joint
- dries transparently
- contains no VOCs

ZOBEL End Grain Seal

colorless moisture protection of end grain surfaces

- environmentally-friendly thanks to water base
- brushable
- fast drying
- easy processing

ZOBEL Anti-Block Agent

protection from blocking in the rebate

- prevents blocking in the rebate area when top coat is not yet cured
- easy application as a spray system
- fast drving
- contains no silicone
- can be painted over after cleaning with degreasing detergent
- solvent-based
- colorless

Maintenance and Care

ZOBEL Cleaner 5101

for coated wood and plastic surfaces

- high cleaning capacity
- ideal pretreatment before applying ZOBEL Protective Emulsion 5102
- environmentally-friendly: water-based and biodegradable
- odorless
- reddish transparent

ZOBEL Protective Emulsion 5102

for coated wood and plastic surfaces

- counteracts natural weathering caused by sun, wind and rain
- refreshes color intensity and gives a new shine
- forms a water-repellent and dirt-resistant protective film
- closes hairline cracks such as those caused by hail streak-free care polish, also for larger surfaces
- environmentally-friendly thanks to water base
- application twice a year recommended
- silk gloss
- colorless

ZOBEL Cleaning and Caring set

for wood coatings

- care set consisting of:

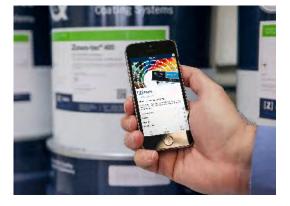
 - → protective emulsion for compensating natural weathering, color tone and gloss refreshing
 - → protective glaze with HighEnd UV protection for repairing small cracks or scratches
- environmentally-friendly thanks to water base
- application twice a year recommended
- silk gloss
- colorless

ZOBEL Service

The formula for success:

Top products paired with outstanding service







Delivery Service

 readiness-to-deliver in line with your needs directly or via the national / international ZOBEL distributors

Sales Support

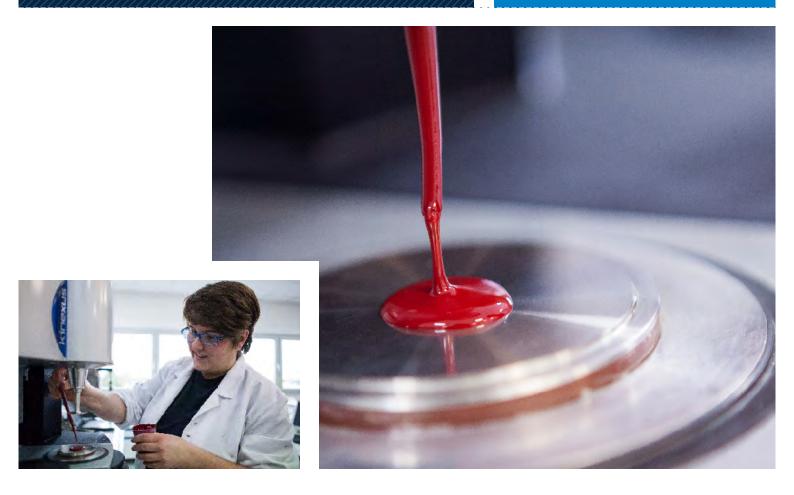
- marketing support in form of brochures, presentations, technical documentation, newsletters, press releases
- ZOBEL website with smartphone-optimized downloads
- technical data sheets can be accessed easily via QR code wherever needed
- cost optimization calculation of coating and process costs and cost savings potential using ZOBEL calculation tool
- easy transfer of knowledge for customer queries

Technical Support

- telephone support by specially trained professionals
- application technology internationally available on-site
- application support
- network of machine and system manufacturers
- color development upon customer request
- laboratory support for special requirements

ZOBEL Academy

 seminars on topics related to industrial window coating



ZOBEL Network

ZOBEL offers more than just paint.

Take advantage of our network of relations to friendly industry and trade covering the aspects of industrial window manufacturing

ZOBEL Memberships





Member of









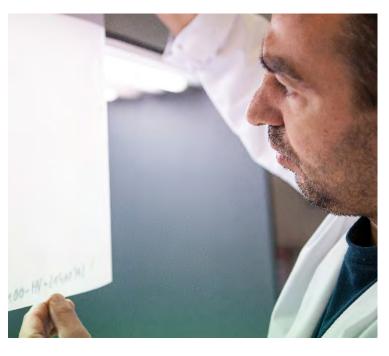


ZOBEL is your partner worldwide



- international partner of the trade
- short-term availability worldwide
- one face to the customer
- key account management





Our Pillars

Personal long-term customer and employee relationships result from a dynamic and serviceoriented environment.



People and know-how



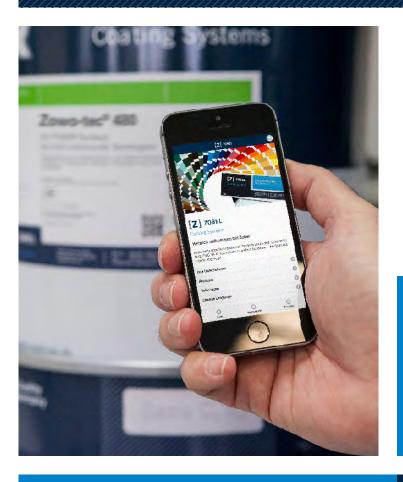


Innovation





Environment





[Z] ZOBEL

Coating Systems

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