



## Technical Data Sheet



# [Z] ZowoTec® 433 TopCoat Invisible Nature

### Product Description

#### Product Type

Water-based coating in raw-wood-look for wood and wood-aluminum-windows

- » Invisible and impalpable coating
- » Certified according to DIN EN 71-3 and DIN 53160
- » For interior and exterior wood and wood-aluminum-windows
- » Emphasizes the natural wood character
- » Fast drying
- » Can be applied in one or two layers
- » Very good dirt- and water-repellence
- » Good chemical and hand lotion resistance
- » Non-yellowing thanks to excellent UV resistance

#### Area of Application

Dimensionally stable, interior and exterior wood-aluminum elements indoors (e.g. windows and house doors).

### Technical Data

#### Base of Binder

1C-self-crosslinking, bio-based polyurethane

#### Color

- » [Z] ZowoTec® 433 TopCoat Invisible Nature for either colorless or colored application
- » Color-Line Nature, Color-Line Classic and special shades based on [Z] ZowoTec® 433. Integrated into the ZOBEL color mixing system
- » The crucial factor for both color collections is the current version in the color mixing system
- » The resulting color of the coating structure emerges from the interplay of the color of the primer, intermediate and top coat
- » Color can be influenced by timber-species, -quality, -humidity and processing conditions

#### Gloss Level

Ultra-matt

#### Density

Approx. 1,03 g/ml

#### Viscosity

Thixotropic setting

### Processing Instructions

#### Application Method

Spraying

Spraying process	Nozzle [mm]	Pressure [bar]	Atomiser [bar]
Airless / Airmix	0,23 – 0,33	50 – 100	0 – 2,0
Low Pressure Air Spraying	1,8 – 2,7	2,5 – 3,5.	./.



## Technical Data Sheet

### Processing Viscosity

### Processing Conditions

### Product Consumption

Dry Time  
(20 °C / 50% relative Air Humidity)

### Recoatability

### Cleaning of the Tools

### System Products

» Can be sprayed up to a wet-film thickness of 275 µm\*, recommended wet film thickness 2 x 125 µm or 2 x 175 µm, depending on application.

\*Depending on color and processing conditions, the maximum wet-film thickness may be less in individual cases

» 350 µm corresponds to a dry film thickness of 90 µm.

» By spraying more than 275 µm wet film thickness, the drying time rises up significantly and also the performance of the lacquer, for example adhesion and hardness can be impacted negatively.

Ready to use. If necessary, can be thinned with max. 5% water (preferably demineralized water).

» To avoid flocculation, may not get in contact with solvents

» Substrate must be dry, free of dust and grease

» Approx. 20 °C for substrate, material und environment, approx. 50% relative air humidity

» Do not process below 15 °C or more than 30 °C

» Stir material well before use; avoid the inclusion of air

» To avoid skin formation, always keep containers tightly closed.

» To remove any paint-particles, that may have formed, filter the paint with a sieve with mesh size of 125 µm (e.g. quick sieve).

» 10% [Z] ZowoSmart® BrushX Plus should be added if brush touch-ups are required.

Approx. 125 ml/m² at a wet-film thickness of 125 µm (without overspray)

Degrees of dryness	125 µm	250 µm
Degree of dryness 1 dust-dry	20 min	50 min
Degree of dryness 4 touch-dry	45 min	2 hours
Degree of dryness 7 transport-dry	90 min	4 hours

Drying time depends on applied quantity and ambient conditions. Low temperature and high humidity retard drying. Always ensure adequate temperature and air exchange

After approx. 90 minutes at 20 °C / 50% relative air humidity) and 125 µm wet-film thickness

Immediately after use with water or ZowoSmart® HydroCleaner

Impregnation	[Z] ZowoTec® 118 Impregnation ProtectX
Primer	[Z] ZowoTec® 200 Primer [Z] ZowoTec® 203 Primer ProtectX [Z] ZowoTec® 243 Primer PrepareProtectX
Intermediate coat	[Z] ZowoTec® 321 InterCoatPlus [Z] ZowoTec® 340 InterCoat IsoX [Z] ZowoTec® 433 TopCoat Invisible Nature
Top coat	[Z] ZowoTec® 433 TopCoat Invisible Nature

Steps of coating exemplary. The respective technical data sheets of the products must be observed

### Standard Steps of Coating

#### Interior application

1 x [Z] ZowoTec® 203 Primer ProtectX

1 x [Z] ZowoTec® 433 TopCoat Invisible Nature, approx. 125 µm

1 x [Z] ZowoTec® 433 TopCoat Invisible Nature, approx. 125 µm



## Technical Data Sheet

### Exterior application (acc. to VFF Data Sheet HO.03)

1 x [Z] ZowoTec® 203 Primer ProtectX  
1 x [Z] ZowoTec® 433 TopCoat Invisible Nature approx. 175 µm  
1 x [Z] ZowoTec® 433 TopCoat Invisible Nature approx. 175 µm

### Type of Packaging

20 Liters, further packaging units on request

### Additional Information

#### Special Information

» Perform a test coating. Check color before use. Subsequent claims cannot be considered. Wood ingredients can cause discoloration!

» Use only one batch no. per layer and color tone!

» Please observe Berger-Zobel steps of coating!

#### VOC-Labeling

EU-limit for the product (Cat. A/e): 150 g/l (2007) / 130 g/l (2010)

This product contains maximum < 130 g/l VOC

#### Minimum Shelf Life

12 months cool but free of frost in the closed original packaging

#### Safety Instructions

Always read label and product information before use. Please observe the usual precautions during processing and storage. For safety-relevant data and instructions on disposal refer to the Material Safety Data Sheet.

All information provided is state of the art. Because of the large number of options for use and processing, however, obligation and liability must be ruled out. With the appearance of new versions, previous editions lose their validity.