



Technical Data Sheet



[Z] ZowoTec® 420 TopCoat

Product Description

Product Type

Water-based, highly transparent thick-layered glaze

- » Early block-resistant
- » Highly weather-resistant
- » Intermediate and final coat in one product
- » Highly transparent and weather-resistant surface quality

Area of Application

Dimensionally stable timber elements (e.g. windows, doors) in-and outdoors.

Technical Data

Base of Binder

Low molecular, self-curing multiphase polymer on basis of an acrylate

Pigments

Strong weather-resistant and lightfast inorganic and organic colored pigments

Color

- » Color-Line Nature, Color-Line Classic and special colors based on [Z] ZowoTec® 420 Base EL. Integrated into the Berger-Zobel Color Mixing System.
- » By adding [Z] ZowoSmart® EffectPigment Silver metallic colours can be made. The quantity of use is listed in the technical datasheet of [Z] ZowoSmart® EffectPigment Silver.
- » Color of coating structure results through the interaction between the color of the primer, the intermediate coat- and the top coat.
- » Color can be influenced by timber-species, -quality, -humidity and processing conditions

Gloss Level

Dull matt, matt, silk gloss and half gloss

Density

Approx. 1,04 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 – 3,5
Low Pressure Air Spraying	1,8 – 2,7	2,5 – 3,5.	./.

- » Can be sprayed up to a wet-film thickness of 300 µm*, recommended wet film thickness approx. 150 µm
- » 150 µm corresponds to a dry film thickness of 45 µm.
- » By spraying more-than 300 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.

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

Processing Viscosity

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



Technical Data Sheet

Processing Conditions

- » 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, mesh size 125 µm (e.g. quick sieve).

Product Consumption

Approx. 150 ml/m² at a wet-film thickness of 150 µm (without overspray)

Drying Time

Air drying

(20 °C / 50% relative Air Humidity)

- » Can be worked over after approx. 4 hours (at a wet-film thickness of 150 µm).

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

Cleaning of the Tools

Immediately after use with water or [Z] ZowoSmart® HydroCleaner.

System Products

Impregnation	[Z] ZowoTec® 118 Impregnation ProtectX
Primer	[Z] ZowoTec® 200 Primer [Z] ZowoTec® 203 Primer ProtectX
Intermediate coat	[Z] ZowoTec® 340 InterCoat IsoX Spray [Z] ZowoTec® 420 TopCoat
Top coat	[Z] ZowoTec® 420 TopCoat

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

Standard Steps of Coating

- 1 x [Z] ZowoTec® 118 Impregnation ProtectX
- 1 x [Z] ZowoTec® 200 Primer
- 1 x [Z] ZowoTec® 420 TopCoat approx. 150 µm
- 1 x [Z] ZowoTec® 420 TopCoat approx. 150 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

18 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.